

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF072318\
 Data File : VF059631.D
 Acq On : 23 Jul 2018 23:12
 Operator : VA/AP
 Sample : J4099-11MSD
 Misc : 5.57g/5mL/MSVOA_F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MSD

Quant Time: Jul 24 04:52:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072318S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 04:17:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	209195	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	291095	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	207396	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	66716	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	160174	48.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.32%	
35) Dibromofluoromethane	4.28	113	142825	53.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.36%	
50) Toluene-d8	7.70	98	313694	46.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.30%	
62) 4-Bromofluorobenzene	11.51	95	101866	26.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	52.48%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	125350	47.755	ug/l	93
3) Chloromethane	1.09	50	48348	40.389	ug/l #	81
4) Vinyl Chloride	1.16	62	65800	48.662	ug/l #	80
5) Bromomethane	1.33	94	41316	35.310	ug/l	92
6) Chloroethane	1.41	64	40285	48.817	ug/l #	86
7) Trichlorofluoromethane	1.48	101	76432	20.788	ug/l	98
8) Diethyl Ether	1.69	74	26146	49.543	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.91	101	82932	44.831	ug/l	93
10) Methyl Iodide	1.96	142	88137	28.334	ug/l #	94
11) Tert butyl alcohol	2.68	59	27293	203.693	ug/l #	87
12) 1,1-Dichloroethene	1.85	96	68574	46.764	ug/l	98
13) Acrolein	2.01	56	303	4.509	ug/l	84
14) Allyl chloride	2.18	41	88396	33.298	ug/l	96
15) Acrylonitrile	3.06	53	37269	180.312	ug/l	97
16) Acetone	2.33	43	88280	156.407	ug/l	96
17) Carbon Disulfide	1.84	76	72438	19.084	ug/l #	83
18) Methyl Acetate	2.44	43	79034	111.025	ug/l	96
19) Methyl tert-butyl Ether	2.53	73	196826	46.056	ug/l	99
20) Methylene Chloride	2.27	84	64534	50.149	ug/l	88
21) trans-1,2-Dichloroethene	2.41	96	65560	43.496	ug/l	89
22) Diisopropyl ether	2.91	45	245000	50.360	ug/l	98
24) 1,1-Dichloroethane	2.99	63	169000	48.465	ug/l	99
25) 2-Butanone	4.50	43	103415	177.713	ug/l #	89
26) 2,2-Dichloropropane	3.76	77	134592	45.796	ug/l	93
27) cis-1,2-Dichloroethene	3.62	96	87660	50.742	ug/l	87
28) Bromochloromethane	3.88	49	50980	39.769	ug/l	95
29) Tetrahydrofuran	4.24	42	42919	182.043	ug/l	90
30) Chloroform	4.03	83	228074	47.580	ug/l	93
31) Cyclohexane	3.86	56	63848	32.906	ug/l #	91
32) 1,1,1-Trichloroethane	4.27	97	203465	46.872	ug/l	91
36) 1,1-Dichloropropene	4.45	75	135429	45.937	ug/l #	92
37) Ethyl Acetate	4.24	43	15786	13.320	ug/l #	1
38) Carbon Tetrachloride	4.16	117	171662	37.737	ug/l	98
39) Methylcyclohexane	5.62	83	54608	22.833	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF072318\
 Data File : VF059631.D
 Acq On : 23 Jul 2018 23:12
 Operator : VA/AP
 Sample : J4099-11MSD
 Misc : 5.57g/5mL/MSVOA_F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MSD

Quant Time: Jul 24 04:52:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072318S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 04:17:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	4.79	78	253640	47.081	ug/l	99
41) Methacrylonitrile	4.91	41	18471	30.401	ug/l #	75
42) 1,2-Dichloroethane	5.11	62	156265	42.962	ug/l	100
44) Trichloroethene	5.66	130	93619	45.083	ug/l	97
45) 1,2-Dichloropropane	6.39	63	68245	46.791	ug/l	98
46) Dibromomethane	6.24	93	51694	42.789	ug/l	98
47) Bromodichloromethane	6.54	83	138118	37.671	ug/l #	91
48) Methyl methacrylate	6.86	41	56773	50.120	ug/l	92
49) 1,4-Dioxane	6.99	88	597	62.206	ug/l	94
51) 4-Methyl-2-Pentanone	8.39	43	217106	196.768	ug/l	98
52) Toluene	7.77	92	167120	40.746	ug/l	99
53) t-1,3-Dichloropropene	8.42	75	103199	33.294	ug/l	93
54) cis-1,3-Dichloropropene	7.45	75	100999	32.871	ug/l	99
55) 1,1,2-Trichloroethane	8.63	97	54205	38.623	ug/l	93
56) Ethyl methacrylate	8.75	69	4347	2.782	ug/l #	67
57) 1,3-Dichloropropane	8.99	76	101090	41.396	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.77	63	35554	196.679	ug/l	100
59) 2-Hexanone	9.62	43	116713	130.344	ug/l	100
60) Dibromochloromethane	8.86	129	80553	32.231	ug/l	100
61) 1,2-Dibromoethane	9.13	107	63545	39.504	ug/l	87
64) Tetrachloroethene	8.29	164	74313	48.250	ug/l	92
65) Chlorobenzene	9.93	112	181625	47.493	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.06	131	82584	47.660	ug/l	96
67) Ethyl Benzene	10.03	91	321425	46.224	ug/l	97
68) m/p-Xylenes	10.27	106	203982	86.316	ug/l	99
69) o-Xylene	10.82	106	110309	42.976	ug/l	96
70) Styrene	10.90	104	145882	37.895	ug/l	92
71) Bromoform	10.88	173	37219	34.664	ug/l	83
73) Isopropylbenzene	11.22	105	291086	68.695	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.78	83	58463	82.187	ug/l	98
76) 1,2,3-Trichloropropane	11.88	75	53821	86.607	ug/l	80
77) Bromobenzene	11.59	156	73192	66.668	ug/l	97
78) n-propylbenzene	11.68	91	298452	58.775	ug/l	98
79) 2-Chlorotoluene	11.80	91	184617	60.664	ug/l	98
80) 1,3,5-Trimethylbenzene	11.90	105	199888	52.696	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.95	75	17872	72.509	ug/l	91
82) 4-Chlorotoluene	11.98	91	186473	55.087	ug/l	99
83) tert-Butylbenzene	12.21	119	185228	49.383	ug/l	98
84) 1,2,4-Trimethylbenzene	12.29	105	196188	50.840	ug/l	95
85) sec-Butylbenzene	12.38	105	203719	42.021	ug/l	100
86) p-Isopropyltoluene	12.53	119	130200	30.514	ug/l	99
87) 1,3-Dichlorobenzene	12.55	146	97461	46.297	ug/l	97
88) 1,4-Dichlorobenzene	12.64	146	91737	46.446	ug/l	99
89) n-Butylbenzene	12.92	91	89471	21.946	ug/l	97
90) Hexachloroethane	12.99	117	33202	31.408	ug/l	97
91) 1,2-Dichlorobenzene	13.02	146	78057	39.780	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	13.71	75	9331	54.497	ug/l	91
93) 1,2,4-Trichlorobenzene	14.27	180	21211	14.462	ug/l	93
94) Hexachlorobutadiene	14.25	225	13638	13.357	ug/l	83
95) Naphthalene	14.52	128	42379	17.791	ug/l #	96

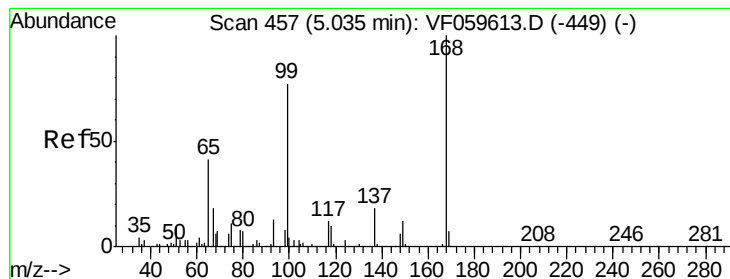
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF072318\
Data File : VF059631.D
Acq On : 23 Jul 2018 23:12
Operator : VA/AP
Sample : J4099-11MSD
Misc : 5.57g/5mL/MSVOA_F/SOIL
ALS Vial : 100 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MSD

Quant Time: Jul 24 04:52:40 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F072318S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 24 04:17:55 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2,3-Trichlorobenzene	14.66	180	15522	11.642	ug/l	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

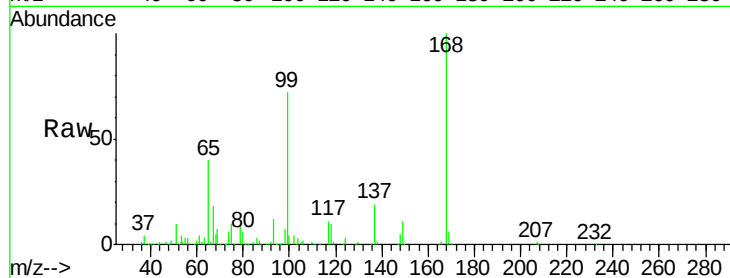
GL-TOPSOIL-09MSD

Tgt Ion:168 Resp: 209195

Ion Ratio Lower Upper

168 100

99 71.8 61.5 92.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

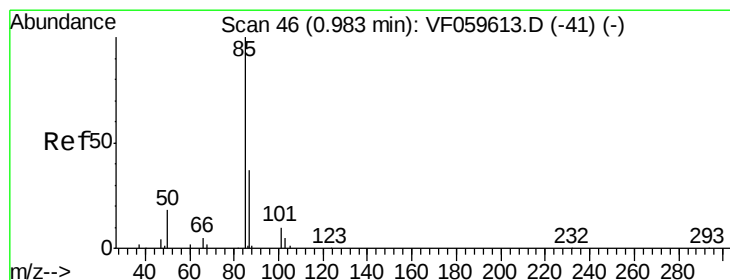
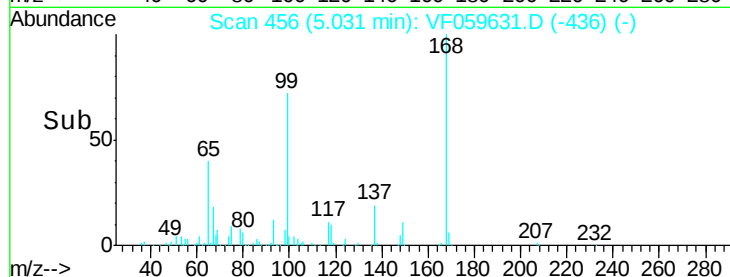
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 47.755 ug/l

RT: 0.98 min Scan# 45

Delta R.T. -0.00 min

Lab File: VF059631.D

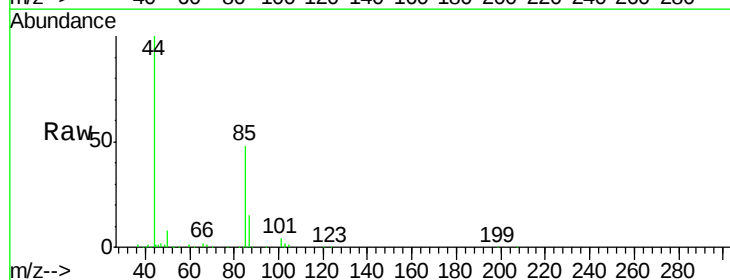
Acq: 23 Jul 2018 23:12

Tgt Ion: 85 Resp: 125350

Ion Ratio Lower Upper

85 100

87 32.2 18.3 54.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

40000

30000

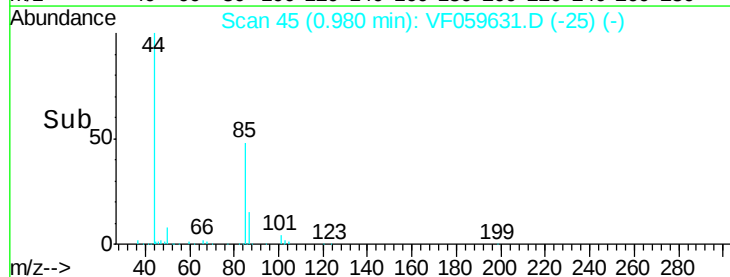
20000

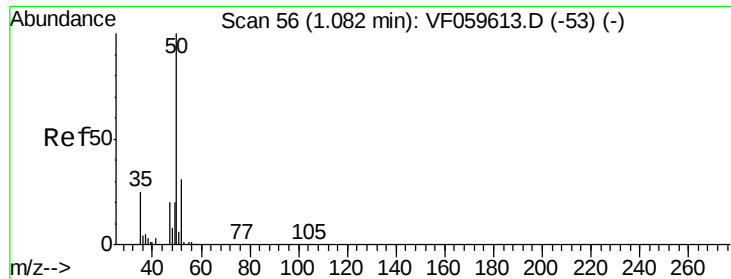
10000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 40.389 ug/l

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

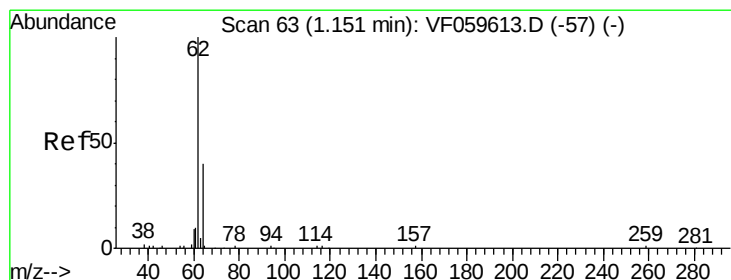
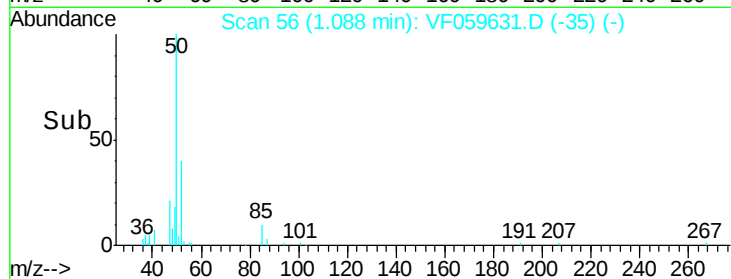
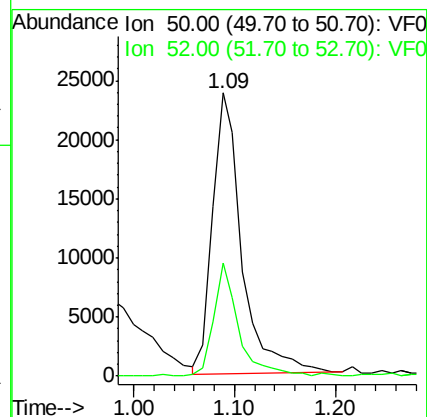
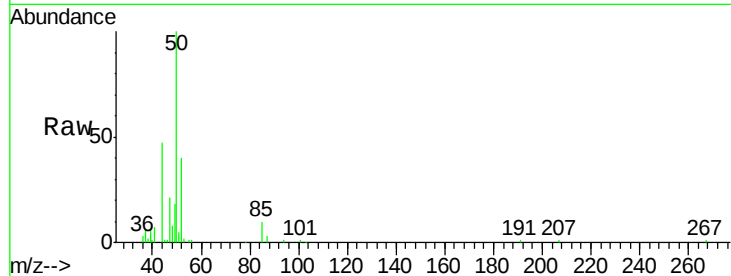
GL-TOPSOIL-09MSD

Tgt Ion: 50 Resp: 48348

Ion Ratio Lower Upper

50 100

52 39.8 23.7 35.5#



#4

Vinyl Chloride

Concen: 48.662 ug/l

RT: 1.16 min Scan# 63

Delta R.T. 0.01 min

Lab File: VF059631.D

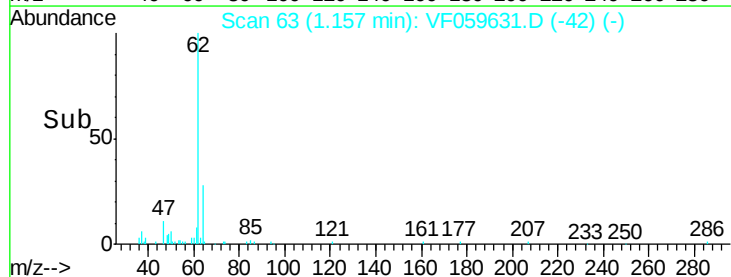
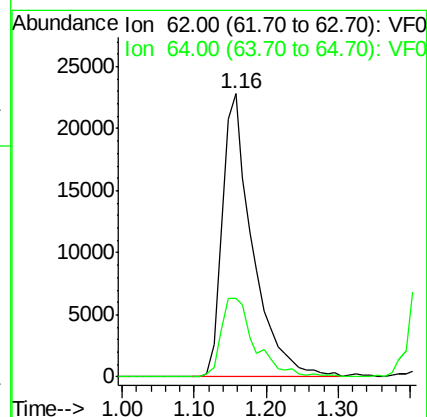
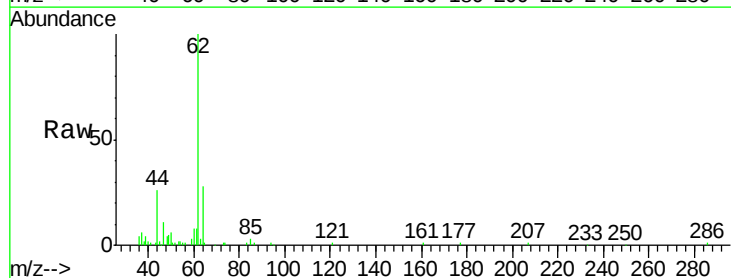
Acq: 23 Jul 2018 23:12

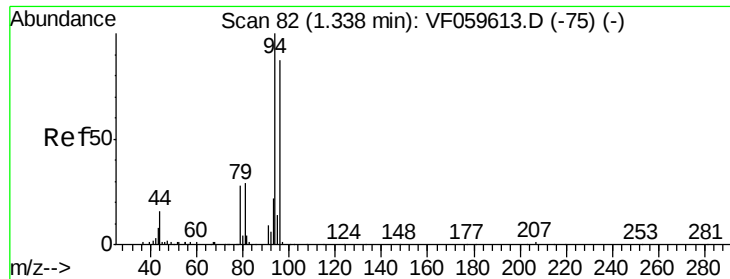
Tgt Ion: 62 Resp: 65800

Ion Ratio Lower Upper

62 100

64 27.8 32.2 48.4#





#5

Bromomethane

Concen: 35.310 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

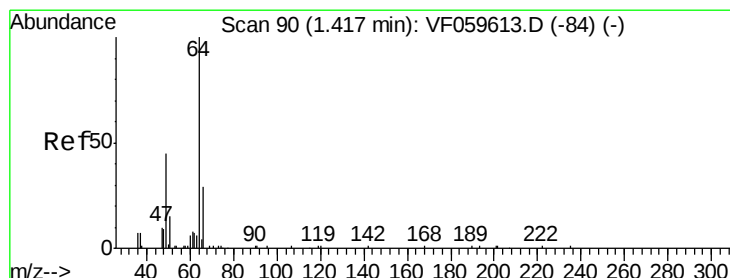
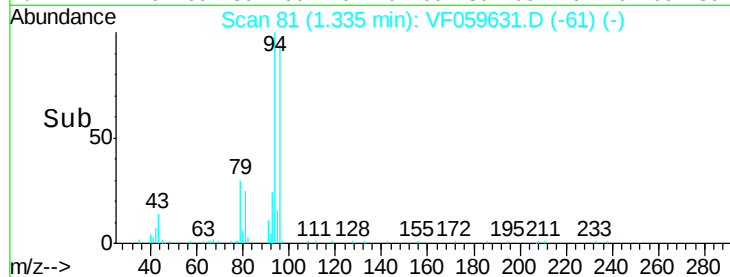
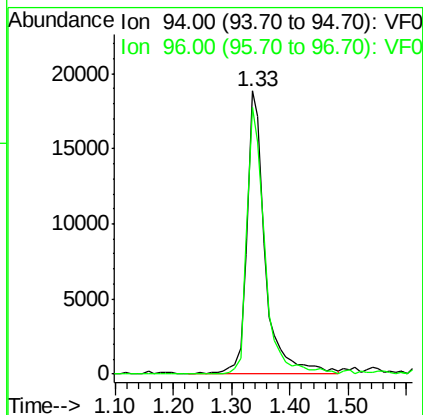
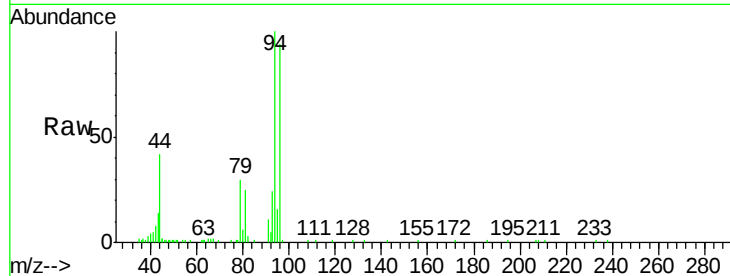
GL-TOPSOIL-09MSD

Tgt Ion: 94 Resp: 41316

Ion Ratio Lower Upper

94 100

96 94.3 69.8 104.8



#6

Chloroethane

Concen: 48.817 ug/l

RT: 1.41 min Scan# 89

Delta R.T. -0.00 min

Lab File: VF059631.D

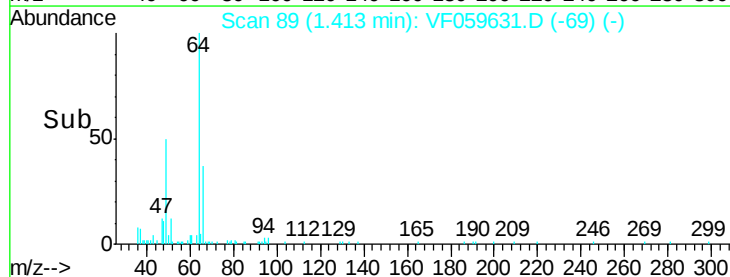
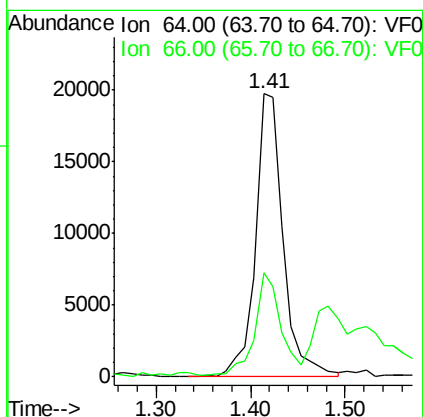
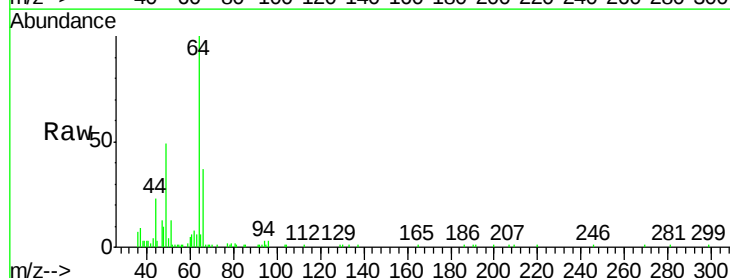
Acq: 23 Jul 2018 23:12

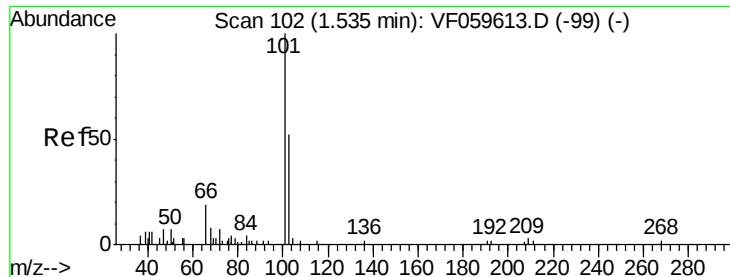
Tgt Ion: 64 Resp: 40285

Ion Ratio Lower Upper

64 100

66 37.0 23.7 35.5#





#7

Trichlorofluoromethane

Concen: 20.788 ug/l

RT: 1.48 min Scan# 96

Delta R.T. -0.05 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

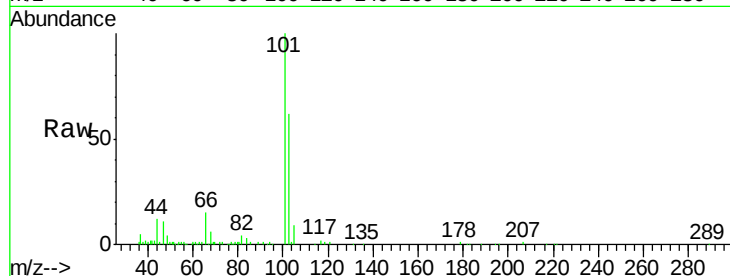
GL-TOPSOIL-09MSD

Tgt Ion:101 Resp: 76432

Ion Ratio Lower Upper

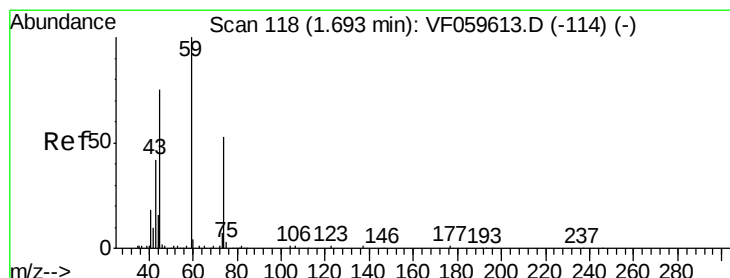
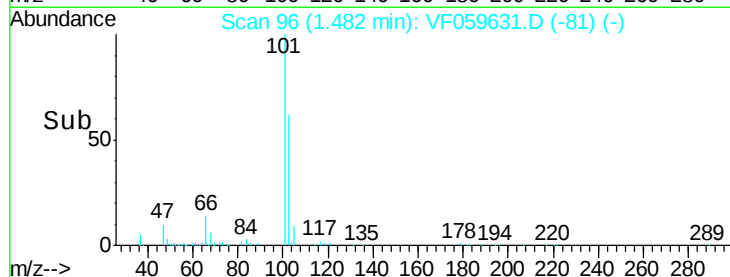
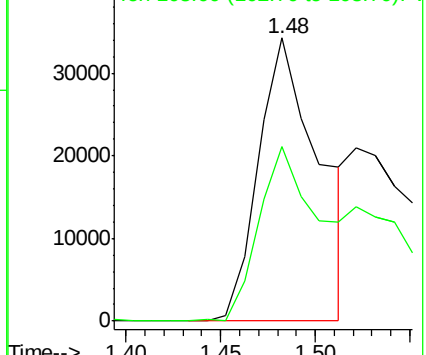
101 100

103 61.7 48.2 72.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 49.543 ug/l

RT: 1.69 min Scan# 117

Delta R.T. -0.00 min

Lab File: VF059631.D

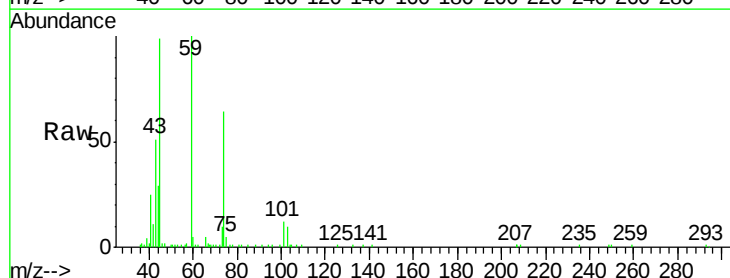
Acq: 23 Jul 2018 23:12

Tgt Ion: 74 Resp: 26146

Ion Ratio Lower Upper

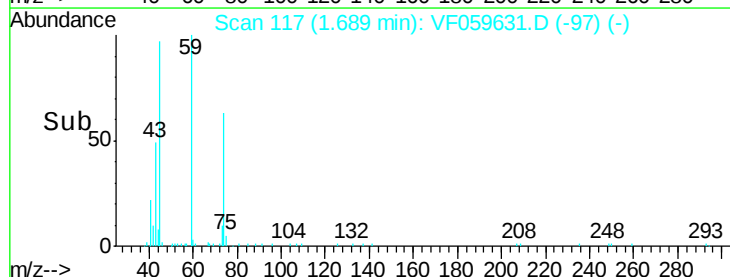
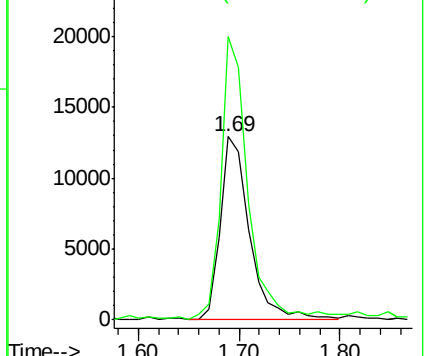
74 100

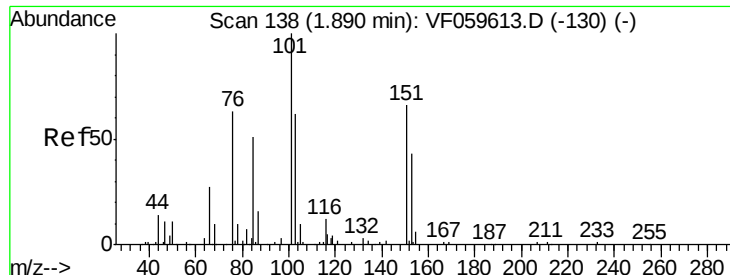
45 154.7 72.0 215.9



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 44.831 ug/l

RT: 1.91 min Scan# 139

Delta R.T. 0.02 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

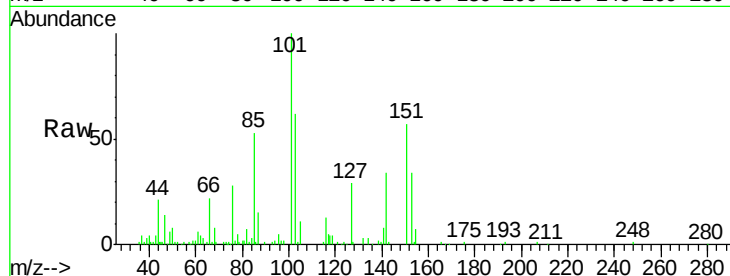
Tgt Ion:101 Resp: 82932

Ion Ratio Lower Upper

101 100

85 52.9 40.2 60.2

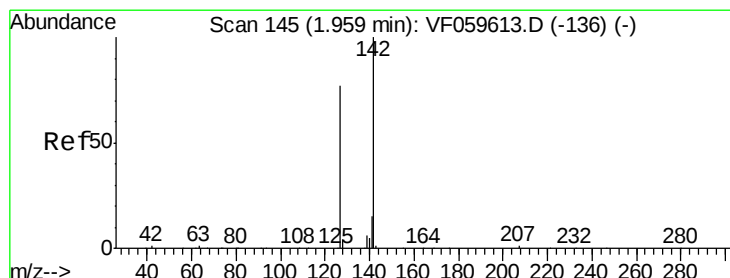
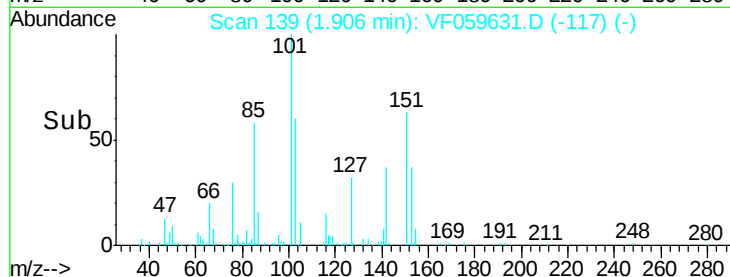
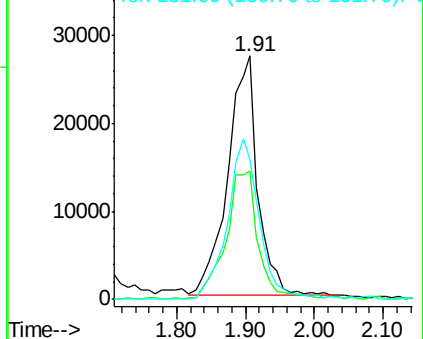
151 57.2 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 28.334 ug/l

RT: 1.96 min Scan# 144

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

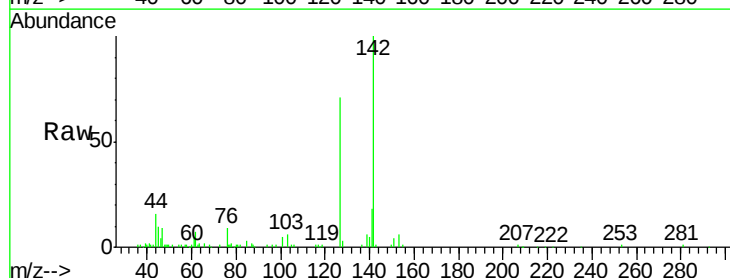
Tgt Ion:142 Resp: 88137

Ion Ratio Lower Upper

142 100

127 71.5 61.2 91.8

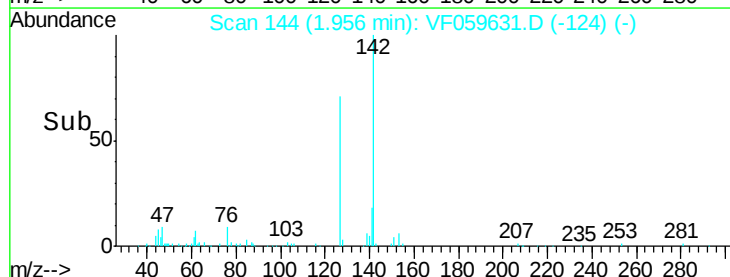
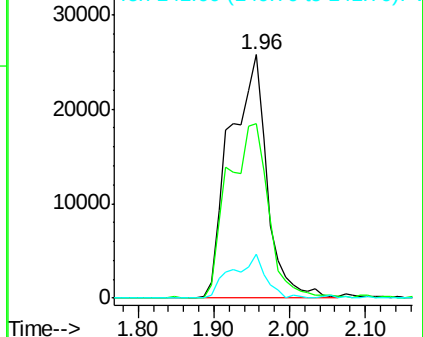
141 18.1 12.0 18.0#

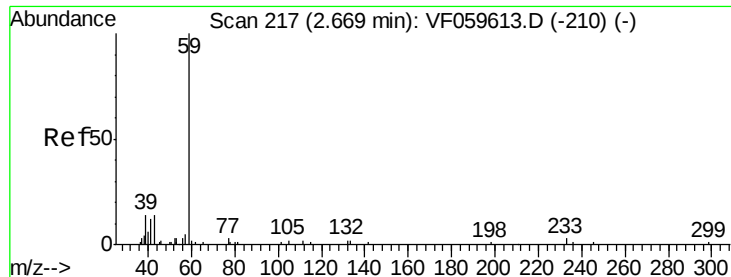


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



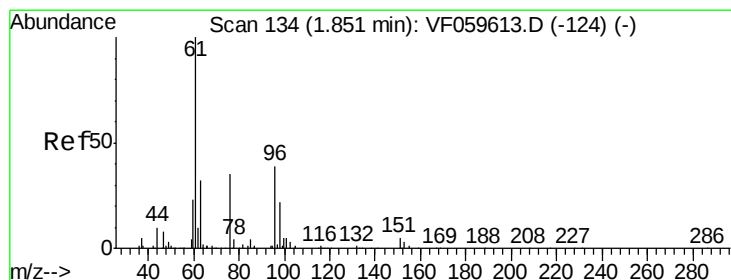
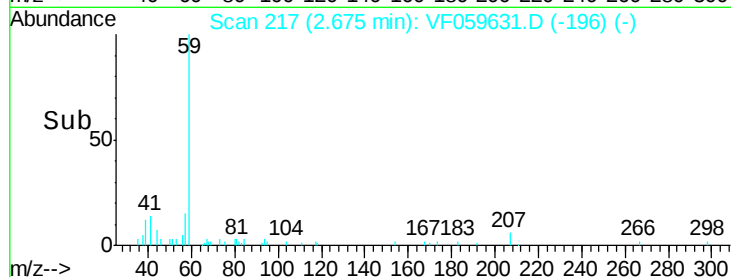
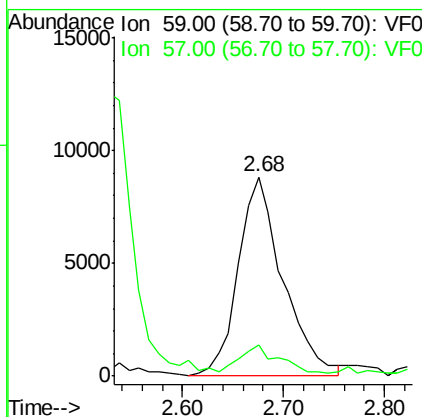
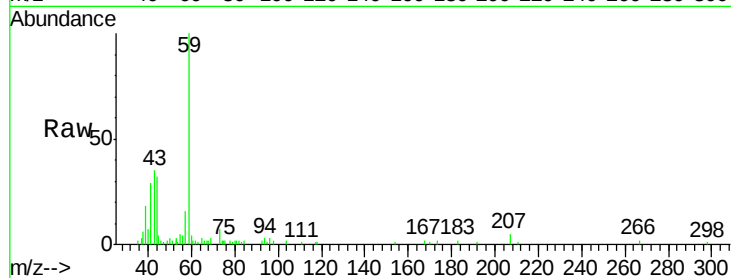


#11

Tert butyl alcohol
 Concen: 203.693 ug/l
 RT: 2.68 min Scan# 217
 Delta R.T. 0.01 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MSD

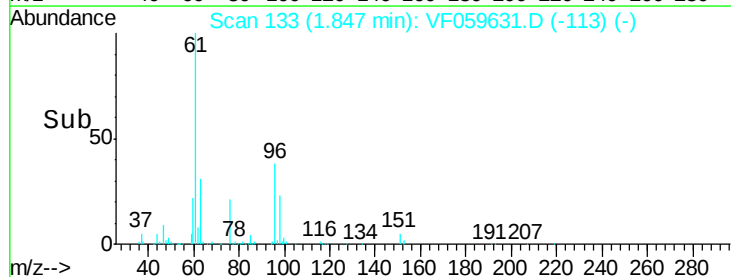
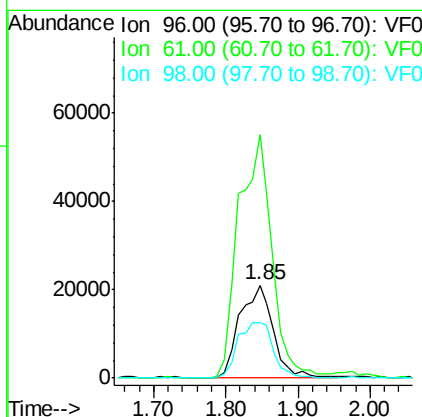
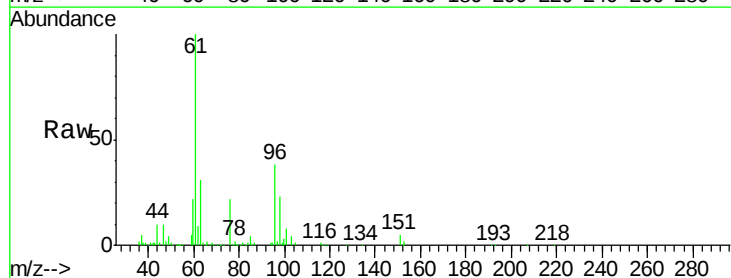
Tgt Ion: 59 Resp: 27293
 Ion Ratio Lower Upper
 59 100
 57 15.7 8.6 12.8#

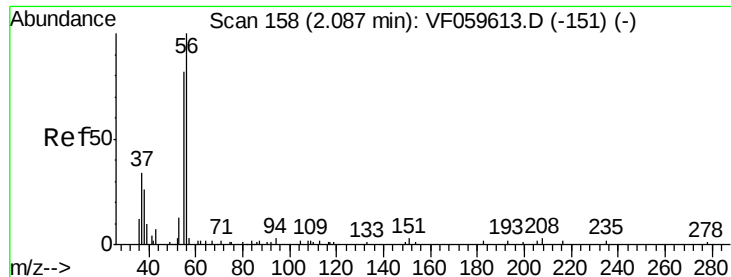


#12

1,1-Dichloroethene
 Concen: 46.764 ug/l
 RT: 1.85 min Scan# 133
 Delta R.T. -0.00 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

Tgt Ion: 96 Resp: 68574
 Ion Ratio Lower Upper
 96 100
 61 261.6 207.2 310.8
 98 60.1 45.5 68.3





#13

Acrolein

Concen: 4.509 ug/l

RT: 2.01 min Scan# 150

Delta R.T. -0.07 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

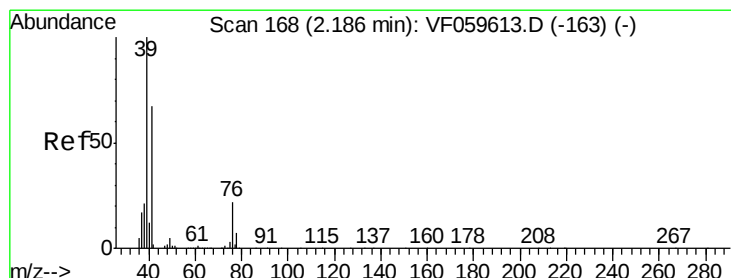
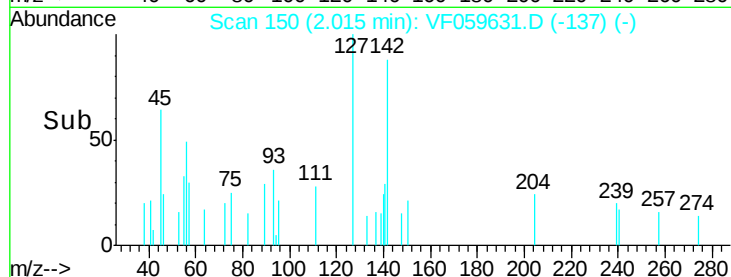
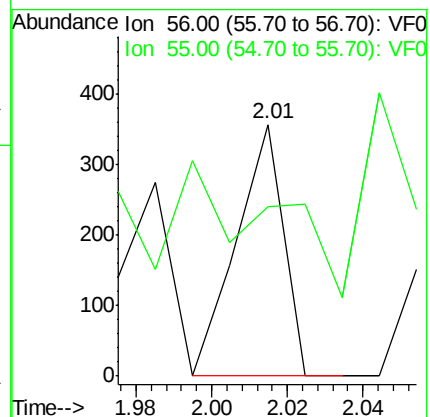
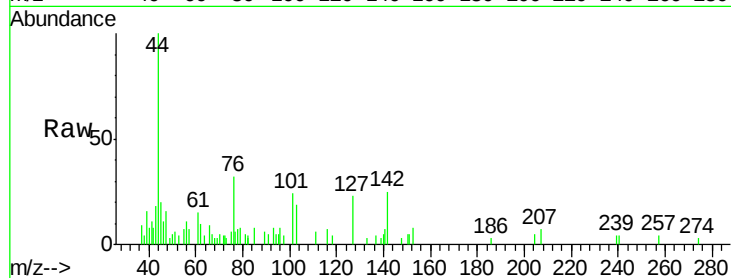
GL-TOPSOIL-09MSD

Tgt Ion: 56 Resp: 303

Ion Ratio Lower Upper

56 100

55 67.4 65.6 98.4



#14

Allyl chloride

Concen: 33.298 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

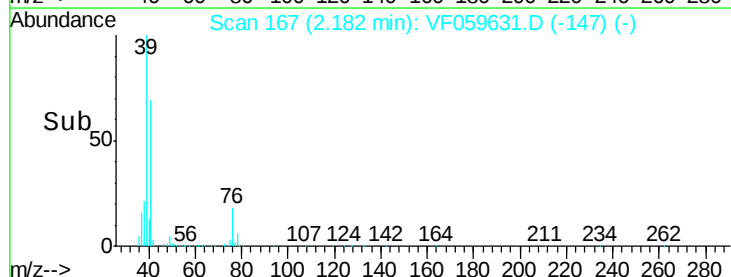
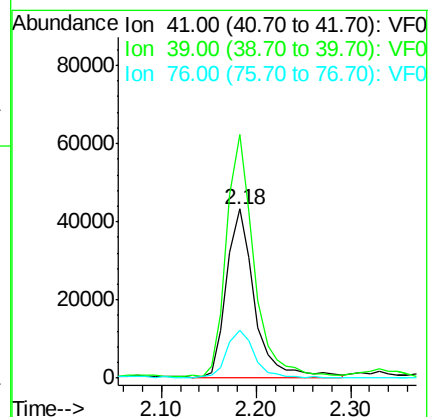
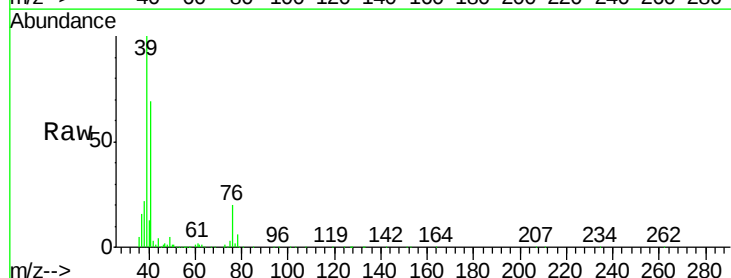
Tgt Ion: 41 Resp: 88396

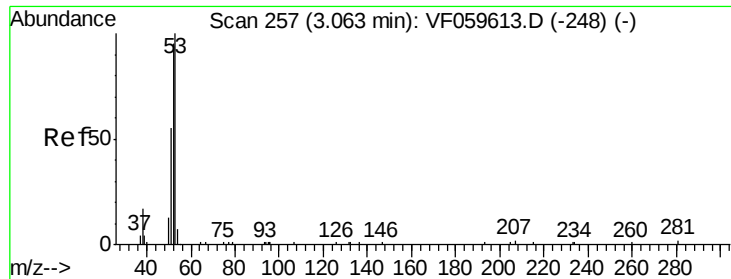
Ion Ratio Lower Upper

41 100

39 144.2 119.0 178.4

76 28.4 26.3 39.5





#15

Acrylonitrile

Concen: 180.312 ug/l

RT: 3.06 min Scan# 256

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

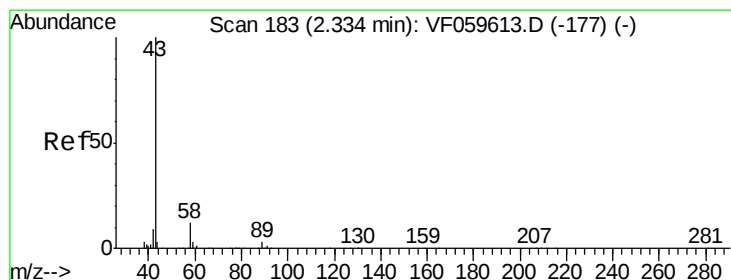
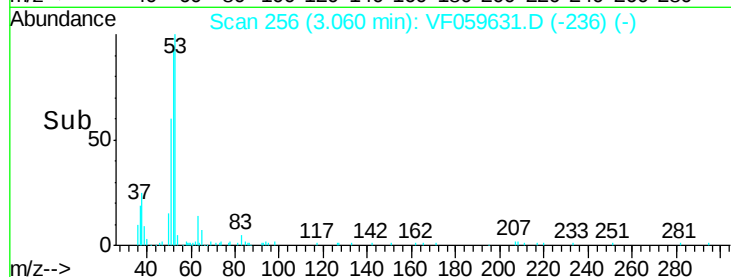
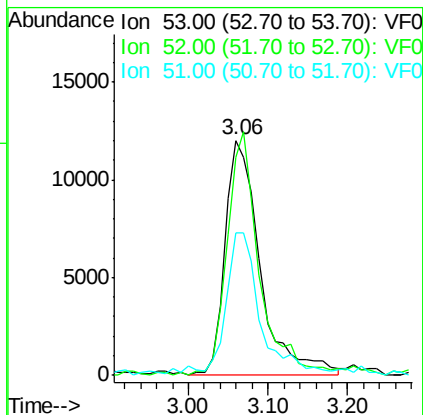
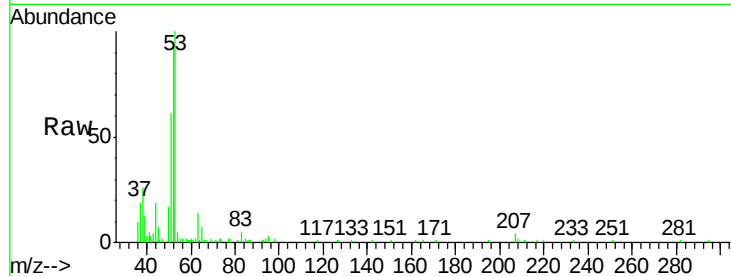
Tgt Ion: 53 Resp: 37269

Ion Ratio Lower Upper

53 100

52 92.9 76.2 114.2

51 60.6 45.8 68.8



#16

Acetone

Concen: 156.407 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059631.D

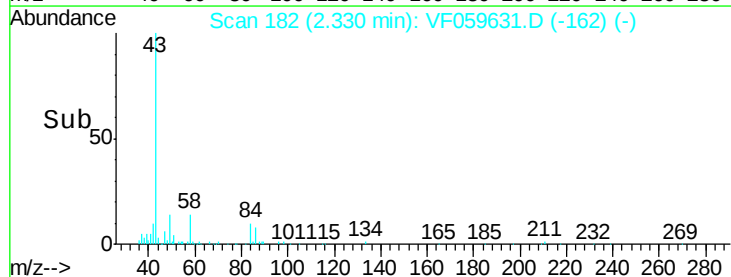
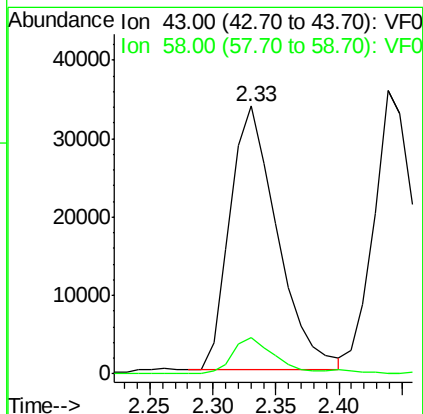
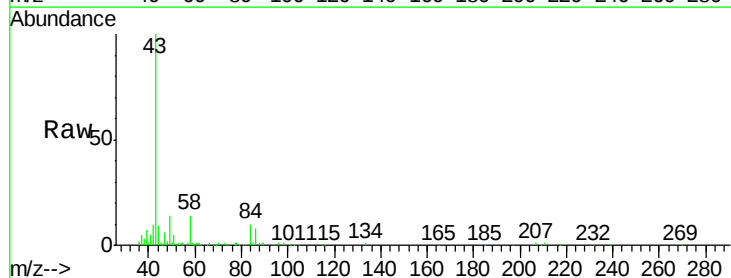
Acq: 23 Jul 2018 23:12

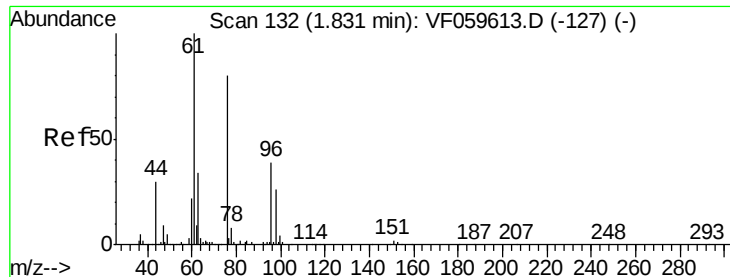
Tgt Ion: 43 Resp: 88280

Ion Ratio Lower Upper

43 100

58 13.8 9.8 14.8

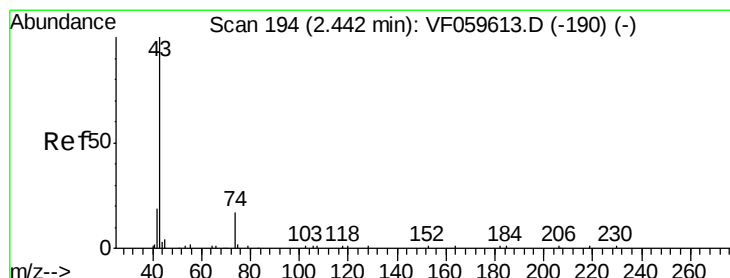
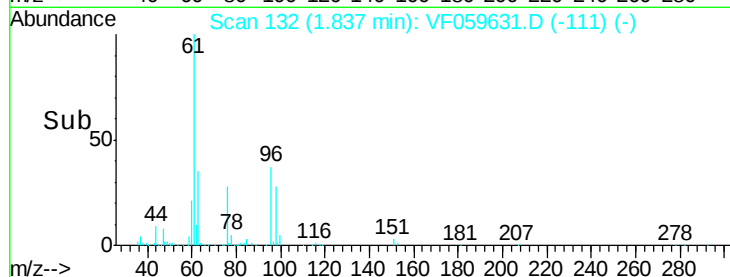
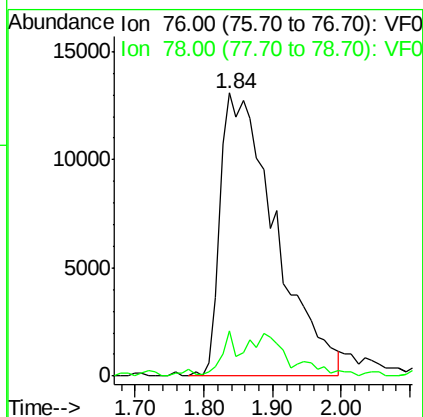
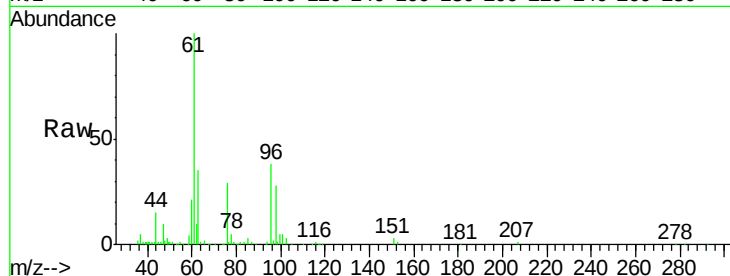




#17
Carbon Disulfide
Concen: 19.084 ug/l
RT: 1.84 min Scan# 132
Delta R.T. 0.01 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

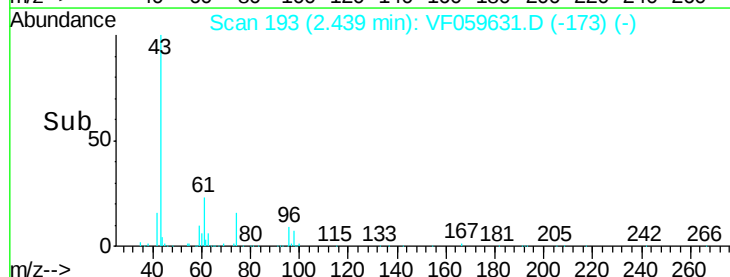
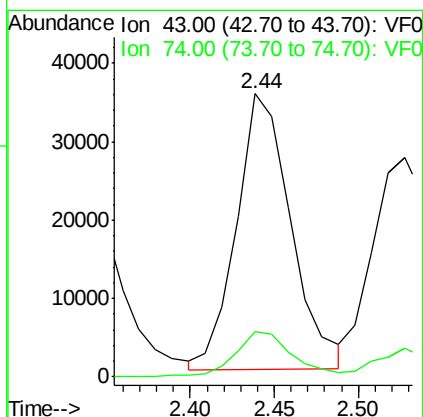
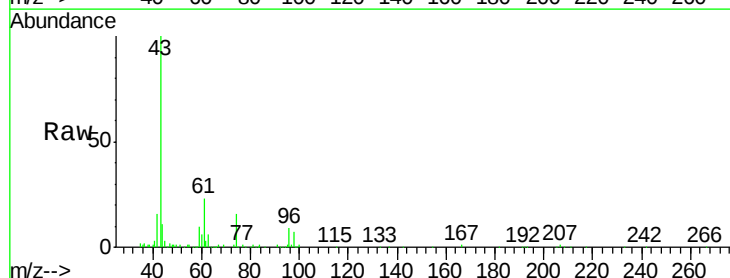
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MSD

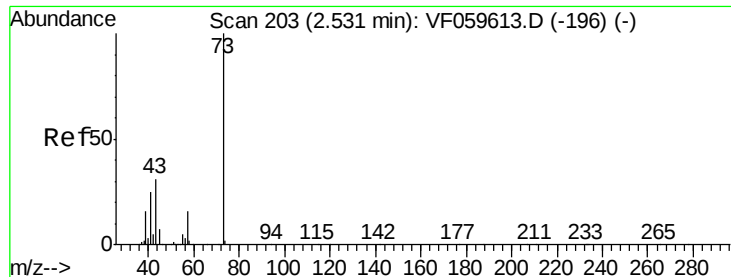
Tgt Ion: 76 Resp: 72438
Ion Ratio Lower Upper
76 100
78 16.0 7.7 11.5#



#18
Methyl Acetate
Concen: 111.025 ug/l
RT: 2.44 min Scan# 193
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

Tgt Ion: 43 Resp: 79034
Ion Ratio Lower Upper
43 100
74 15.9 11.4 17.0



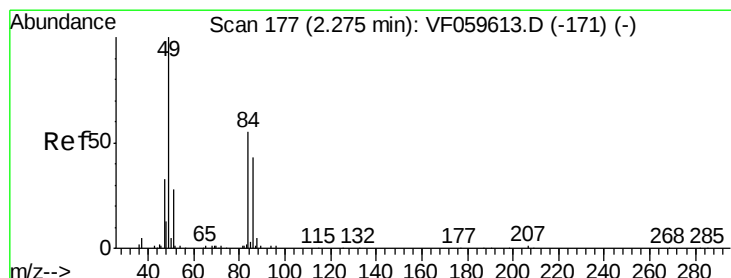
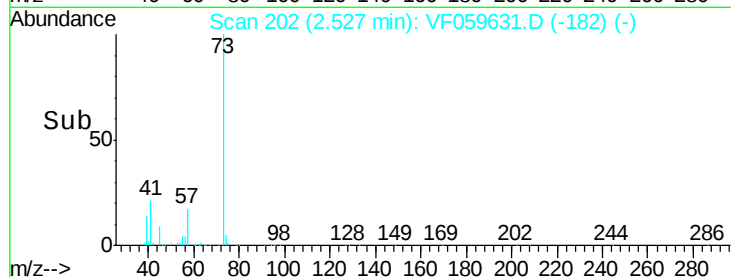
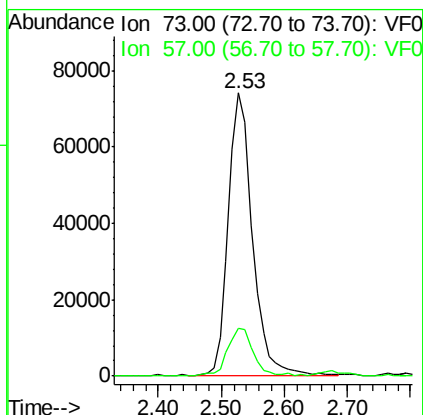
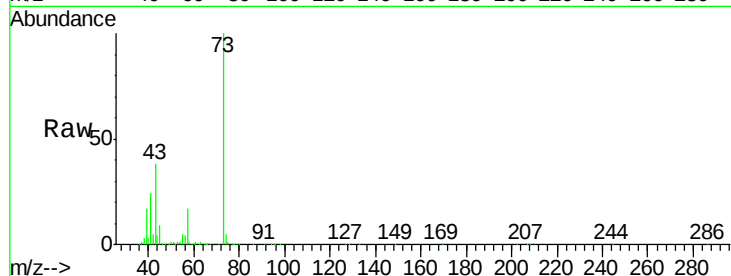


#19

Methyl tert-butyl Ether
 Concen: 46.056 ug/l
 RT: 2.53 min Scan# 202
 Delta R.T. -0.00 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MSD

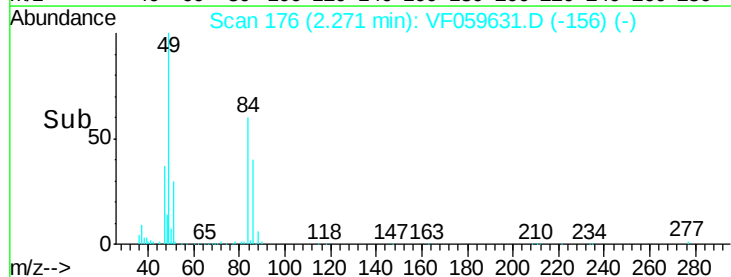
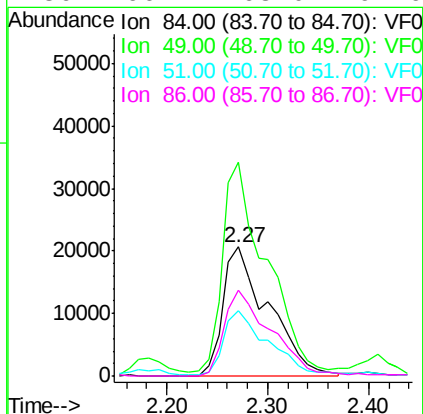
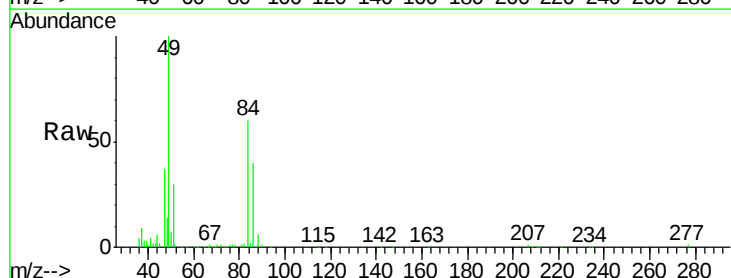
Tgt Ion: 73 Resp: 196826
 Ion Ratio Lower Upper
 73 100
 57 16.9 13.2 19.8

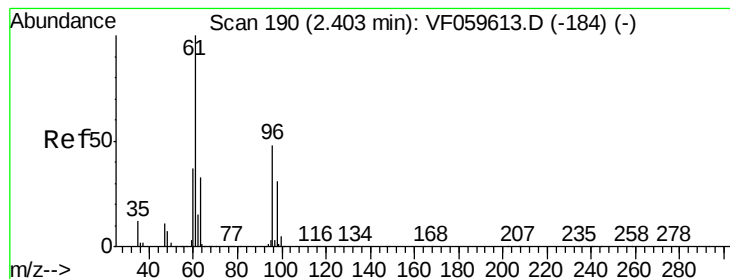


#20

Methylene Chloride
 Concen: 50.149 ug/l
 RT: 2.27 min Scan# 176
 Delta R.T. -0.00 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

Tgt Ion: 84 Resp: 64534
 Ion Ratio Lower Upper
 84 100
 49 165.7 148.6 222.8
 51 50.4 42.7 64.1
 86 66.7 63.0 94.6





#21

trans-1,2-Dichloroethene

Concen: 43.496 ug/l

RT: 2.41 min Scan# 190

Delta R.T. 0.01 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

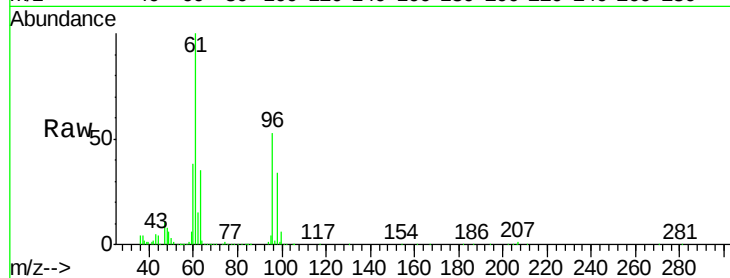
Tgt Ion: 96 Resp: 65560

Ion Ratio Lower Upper

96 100

61 187.4 167.0 250.6

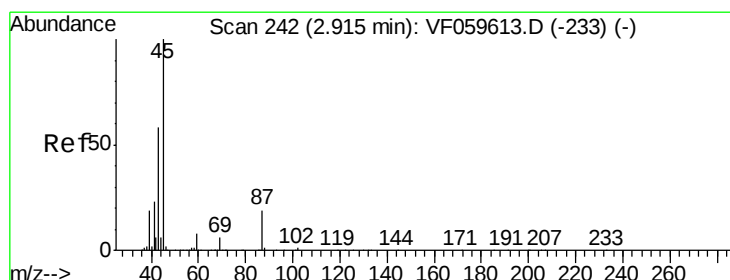
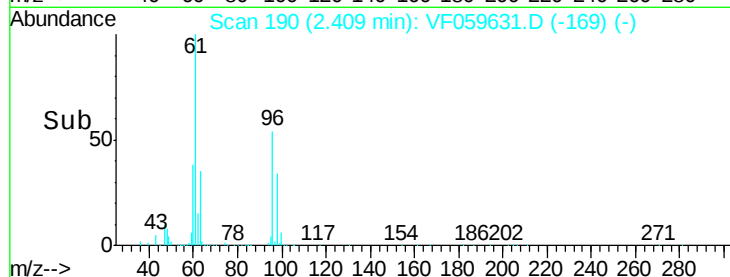
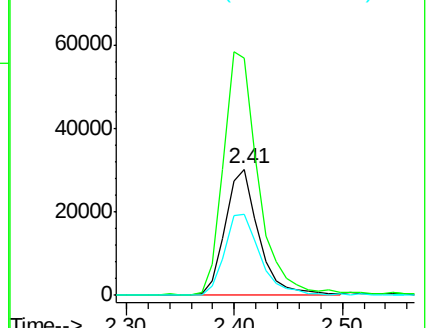
98 63.7 51.8 77.8



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 50.360 ug/l

RT: 2.91 min Scan# 241

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Tgt Ion: 45 Resp: 245000

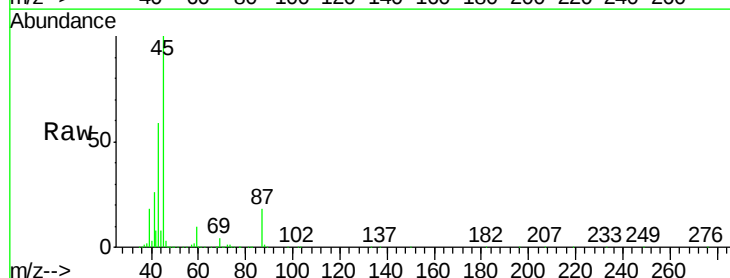
Ion Ratio Lower Upper

45 100

43 59.3 46.7 70.1

87 17.7 15.0 22.6

59 10.1 7.0 10.4

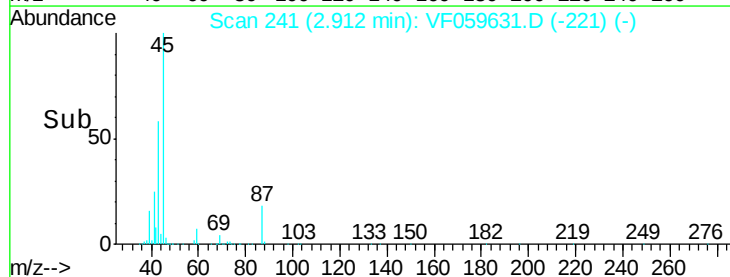
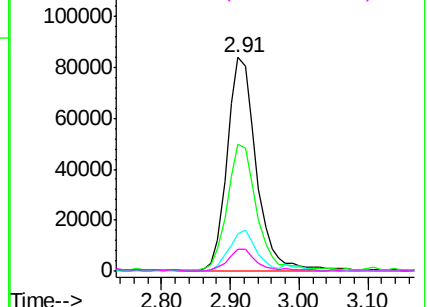


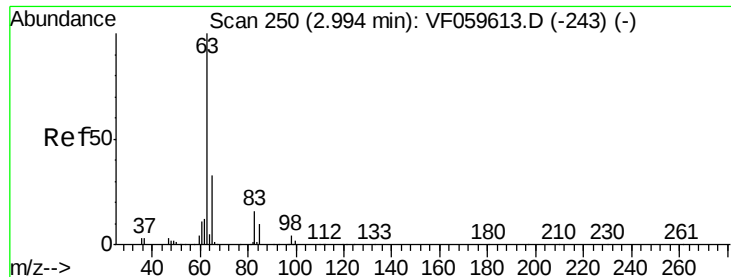
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#24

1,1-Dichloroethane

Concen: 48.465 ug/l

RT: 2.99 min Scan# 249

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

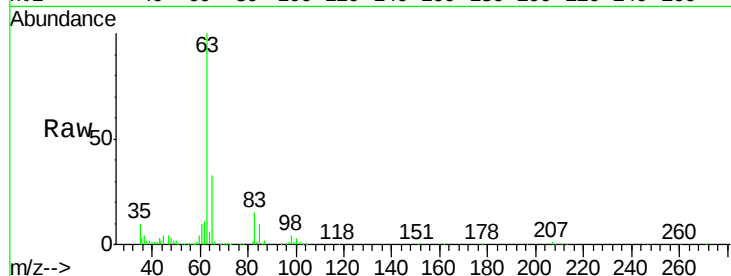
Tgt Ion: 63 Resp: 169000

Ion Ratio Lower Upper

63 100

98 4.2 1.9 5.7

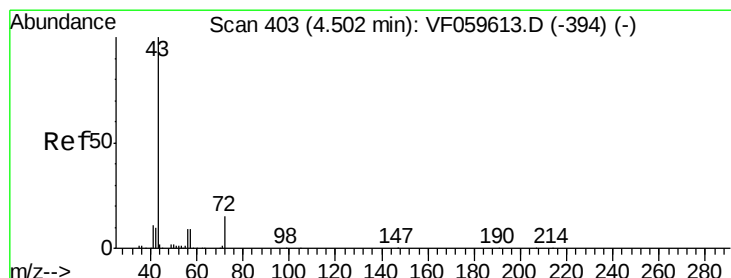
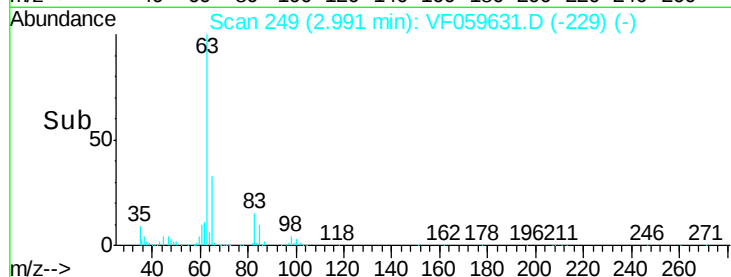
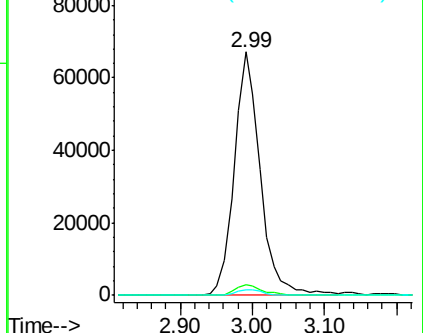
100 2.5 1.2 3.6



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#25

2-Butanone

Concen: 177.713 ug/l

RT: 4.50 min Scan# 402

Delta R.T. -0.00 min

Lab File: VF059631.D

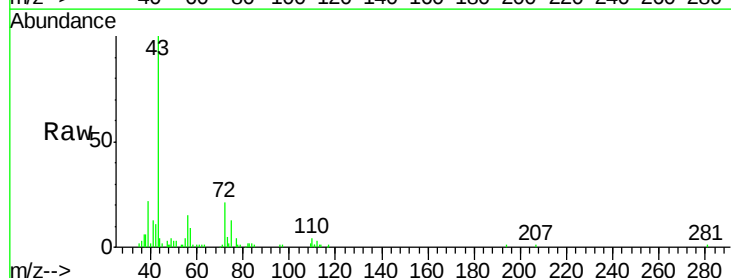
Acq: 23 Jul 2018 23:12

Tgt Ion: 43 Resp: 103415

Ion Ratio Lower Upper

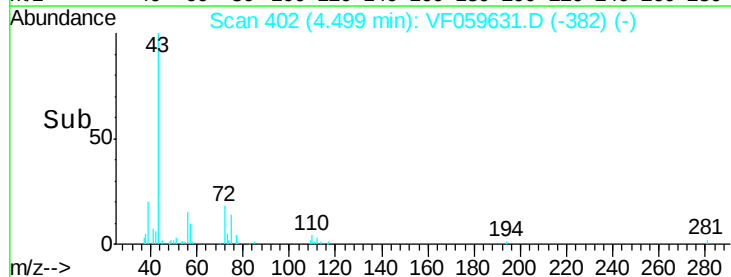
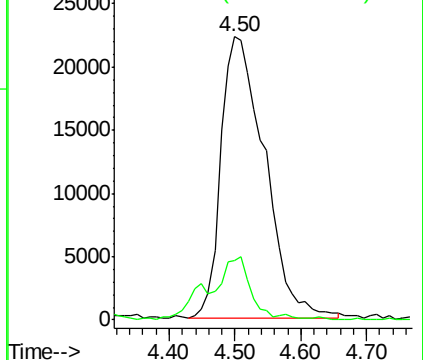
43 100

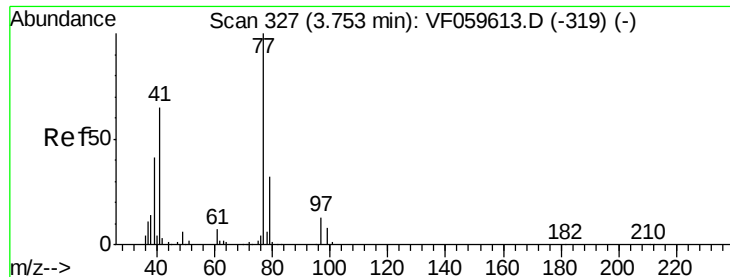
72 20.9 12.9 19.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#26

2,2-Dichloropropane

Concen: 45.796 ug/l

RT: 3.76 min Scan# 327

Delta R.T. 0.01 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

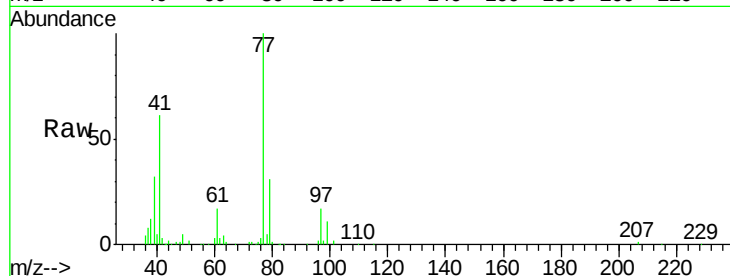
GL-TOPSOIL-09MSD

Tgt Ion: 77 Resp: 134592

Ion Ratio Lower Upper

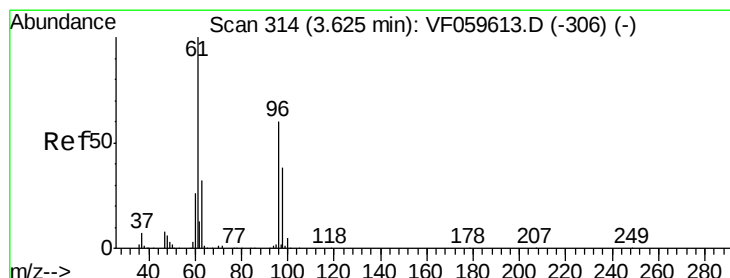
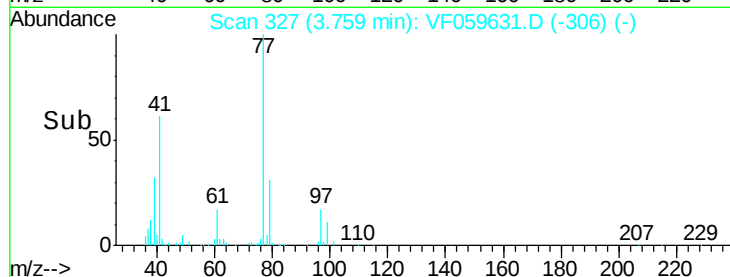
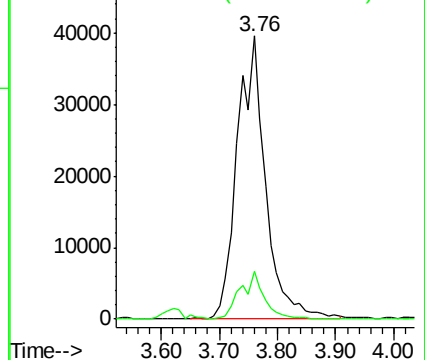
77 100

97 17.0 7.1 21.3



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



#27

cis-1,2-Dichloroethene

Concen: 50.742 ug/l

RT: 3.62 min Scan# 313

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

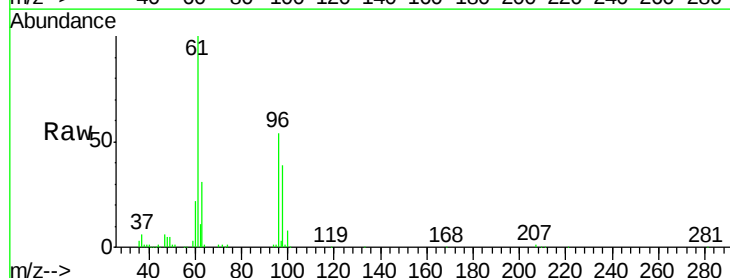
Tgt Ion: 96 Resp: 87660

Ion Ratio Lower Upper

96 100

61 184.9 0.0 335.2

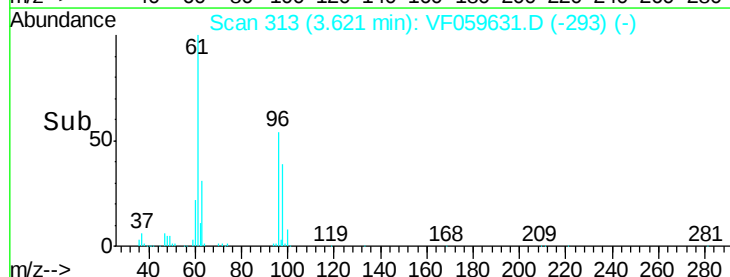
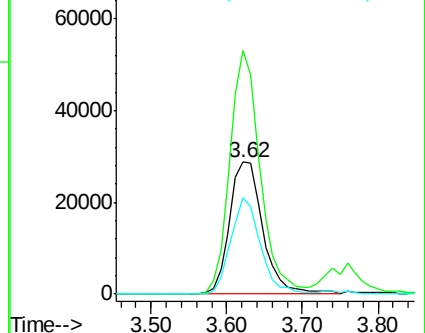
98 72.9 0.0 126.6

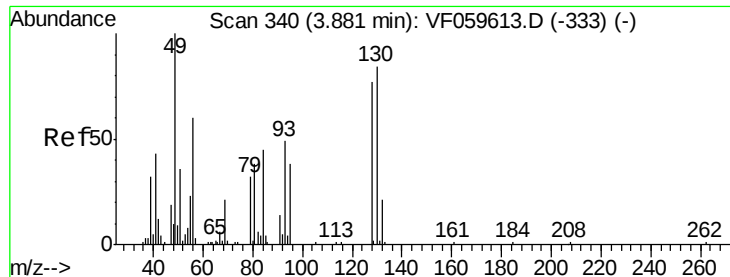


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#28

Bromochloromethane

Concen: 39.769 ug/l

RT: 3.88 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

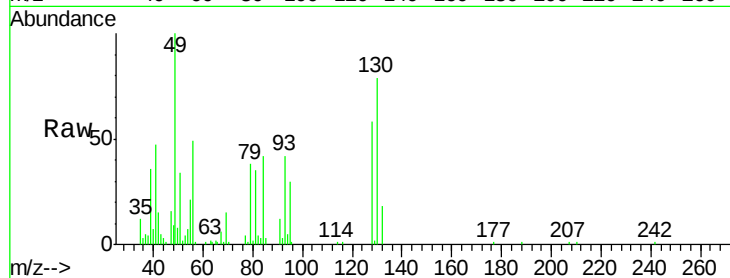
Tgt Ion: 49 Resp: 50980

Ion Ratio Lower Upper

49 100

129 2.3 0.0 4.6

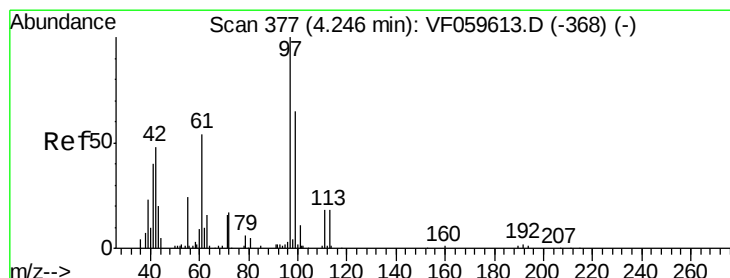
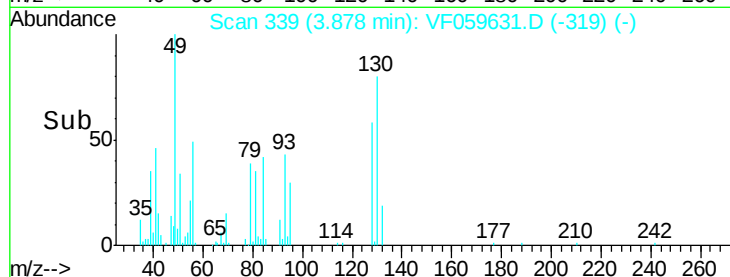
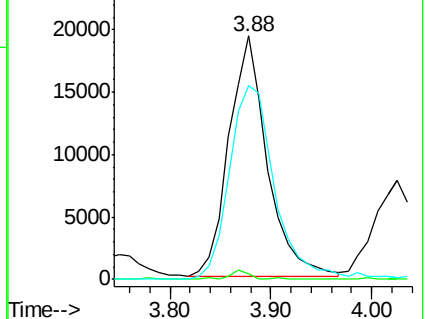
130 79.5 67.1 100.7



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): VF0

Ion 130.00 (129.70 to 130.70): VF0



#29

Tetrahydrofuran

Concen: 182.043 ug/l

RT: 4.24 min Scan# 376

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

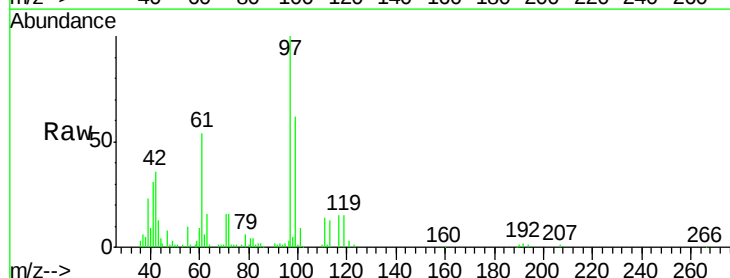
Tgt Ion: 42 Resp: 42919

Ion Ratio Lower Upper

42 100

72 39.8 27.9 41.9

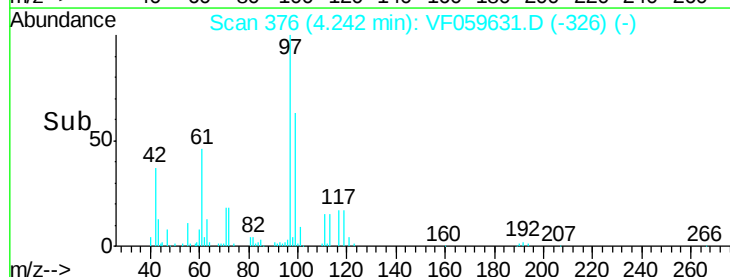
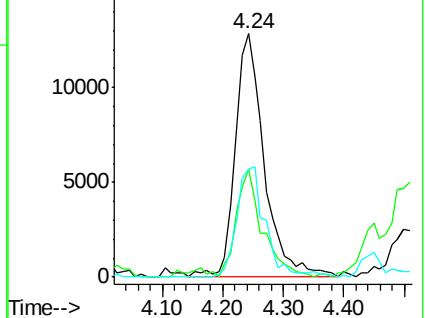
71 43.2 29.3 43.9

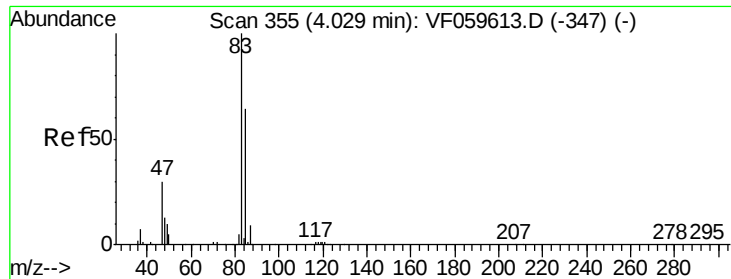


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

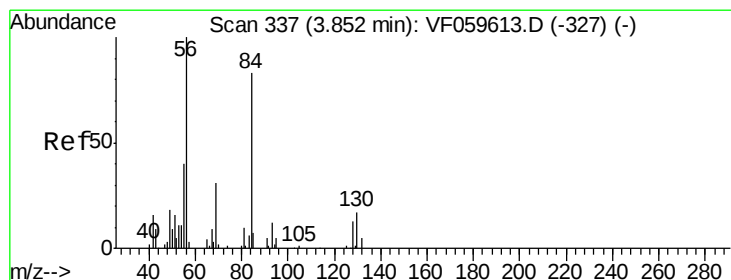
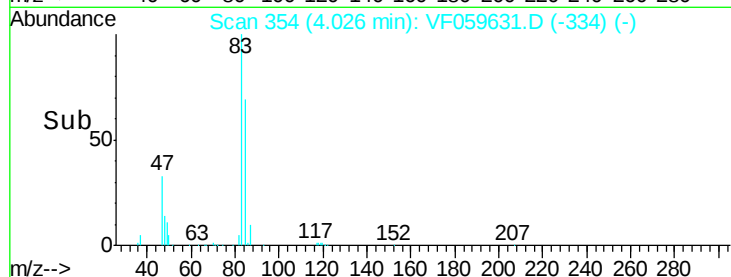
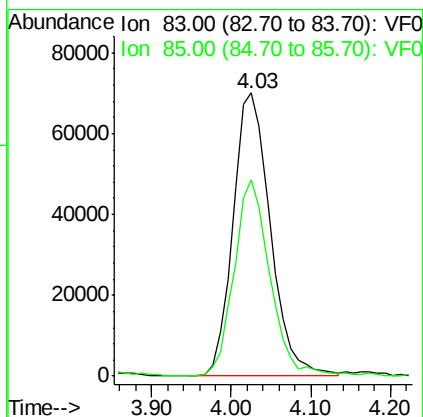
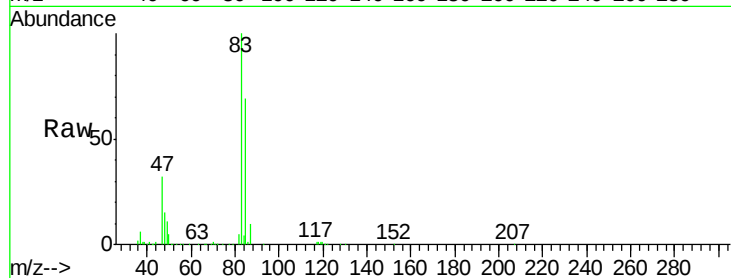




#30
Chloroform
Concen: 47.580 ug/l
RT: 4.03 min Scan# 354
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

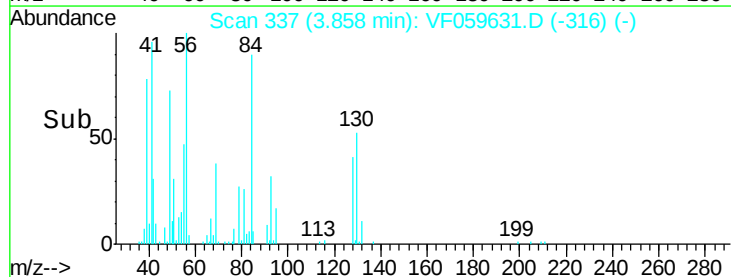
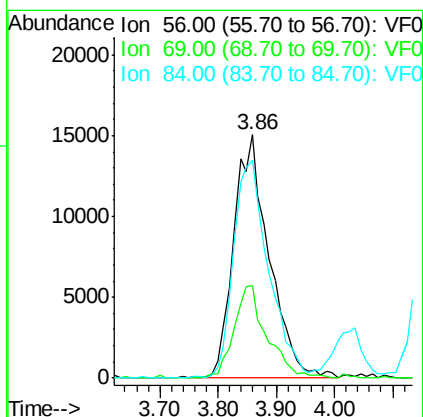
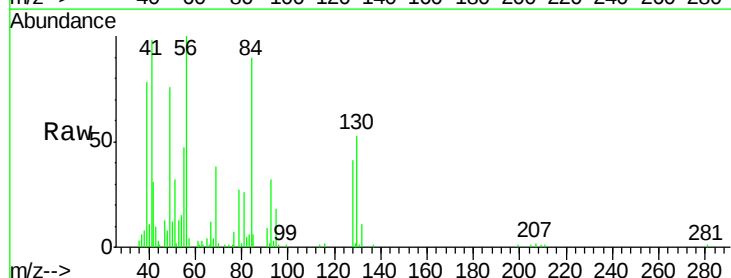
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MSD

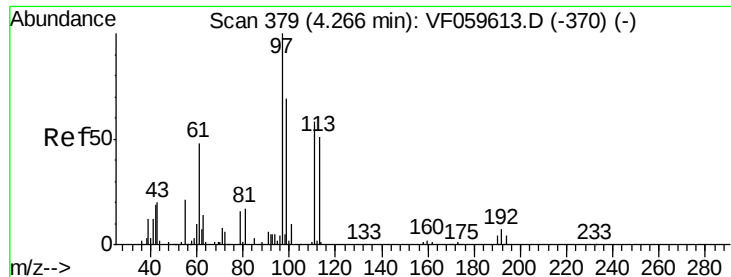
Tgt Ion: 83 Resp: 228074
Ion Ratio Lower Upper
83 100
85 69.3 51.1 76.7



#31
Cyclohexane
Concen: 32.906 ug/l
RT: 3.86 min Scan# 337
Delta R.T. 0.01 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

Tgt Ion: 56 Resp: 63848
Ion Ratio Lower Upper
56 100
69 38.2 24.6 37.0#
84 89.6 66.6 99.8





#32

1,1,1-Trichloroethane

Concen: 46.872 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

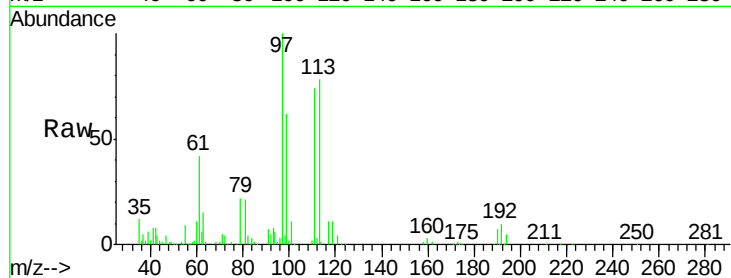
Tgt Ion: 97 Resp: 203465

Ion Ratio Lower Upper

97 100

99 62.1 55.4 83.2

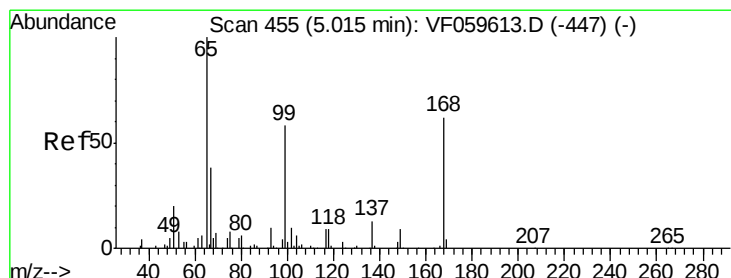
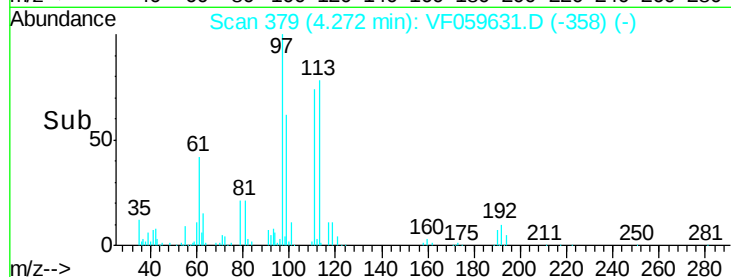
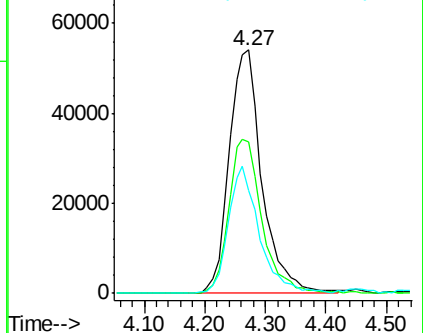
61 42.1 39.3 58.9



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 48.657 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF059631.D

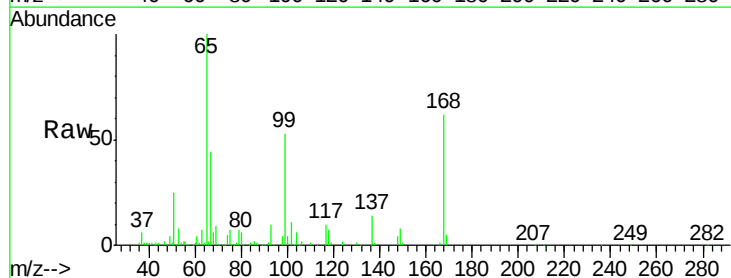
Acq: 23 Jul 2018 23:12

Tgt Ion: 65 Resp: 160174

Ion Ratio Lower Upper

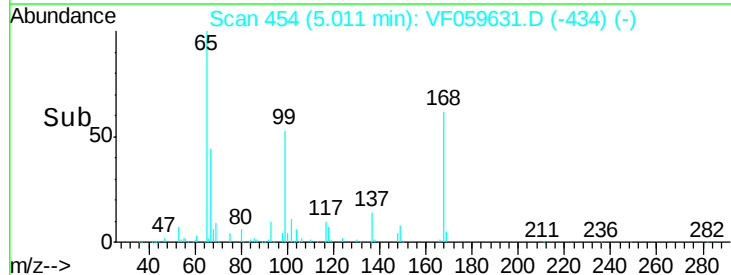
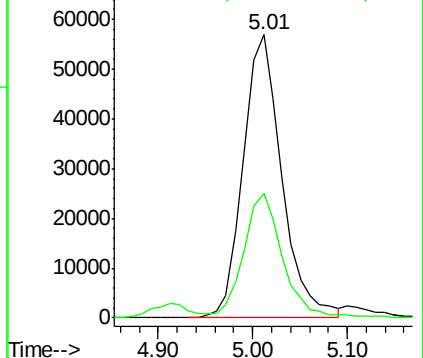
65 100

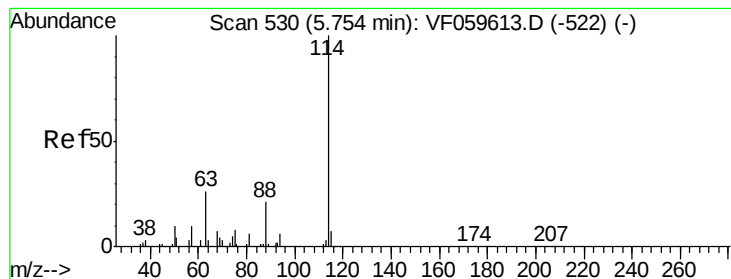
67 44.2 0.0 83.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 530

Delta R.T. 0.01 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

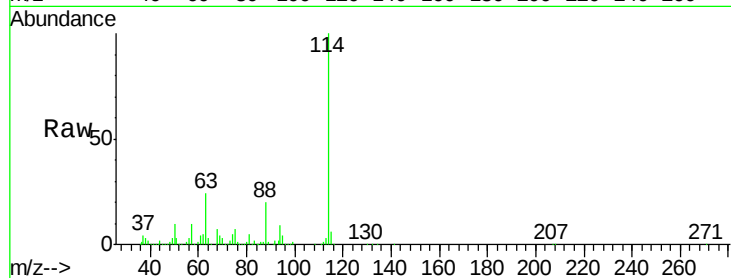
Tgt Ion:114 Resp: 291095

Ion Ratio Lower Upper

114 100

63 23.6 0.0 51.8

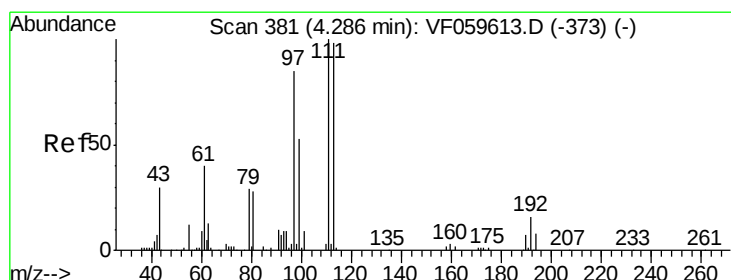
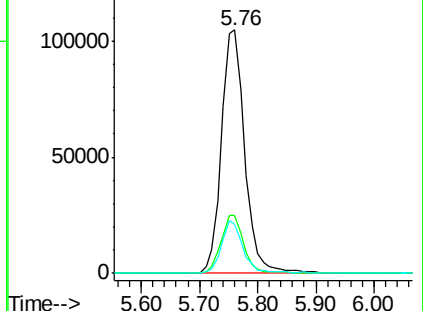
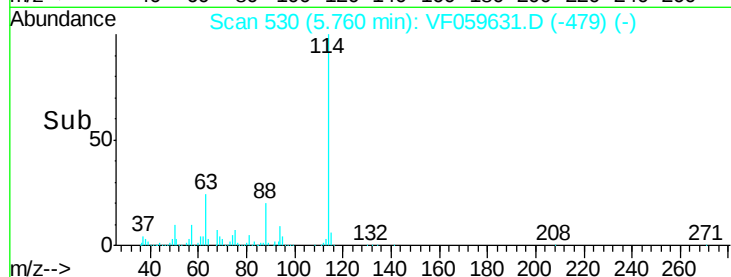
88 20.3 0.0 42.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 53.179 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

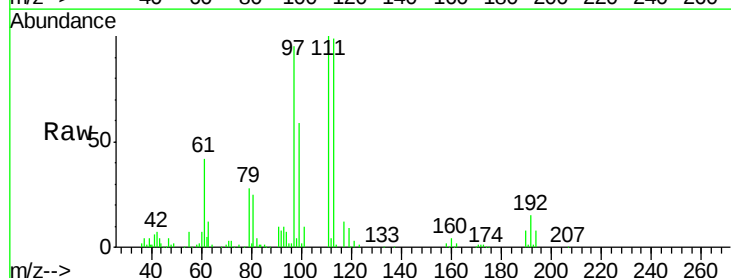
Tgt Ion:113 Resp: 142825

Ion Ratio Lower Upper

113 100

111 100.8 81.5 122.3

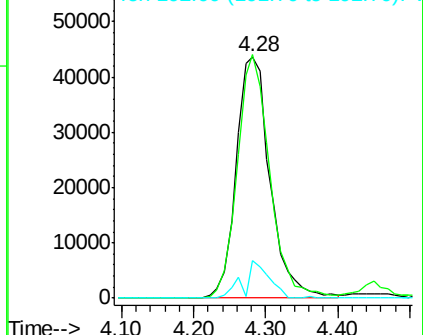
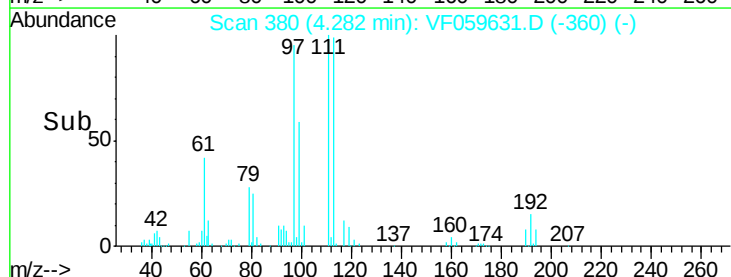
192 15.7 13.4 20.2

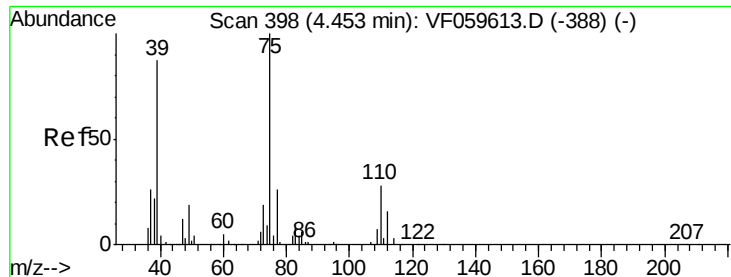


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

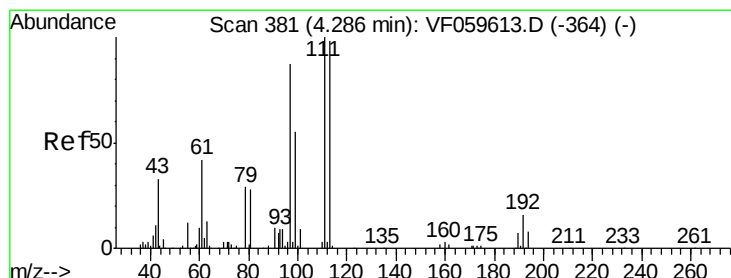
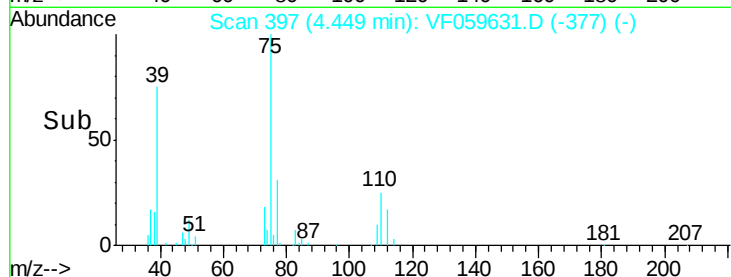
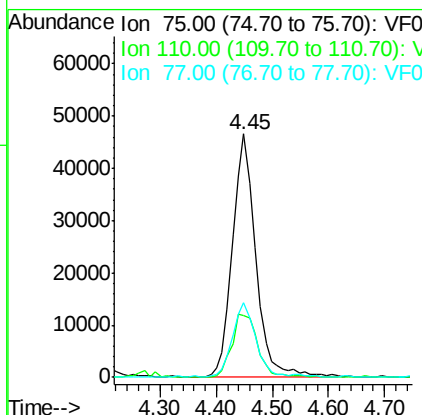
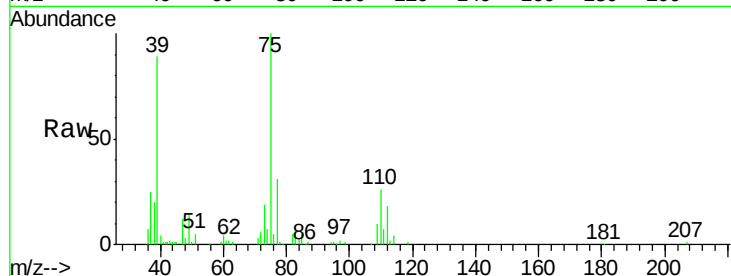




#36
 1,1-Dichloropropene
 Concen: 45.937 ug/l
 RT: 4.45 min Scan# 397
 Delta R.T. -0.00 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

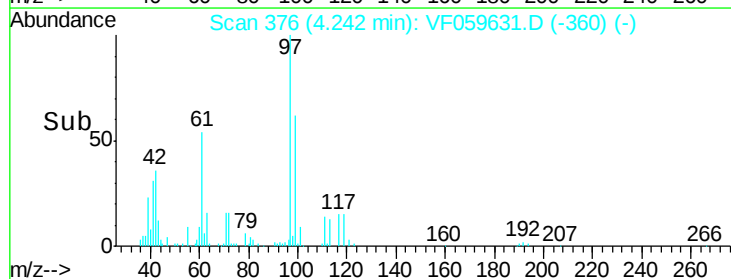
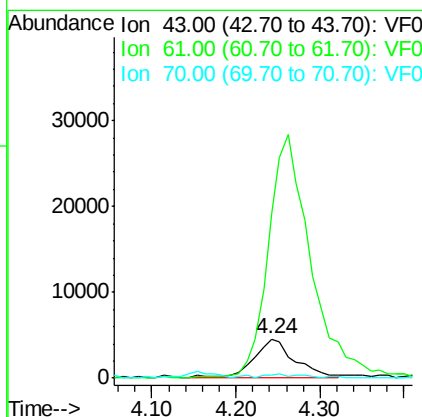
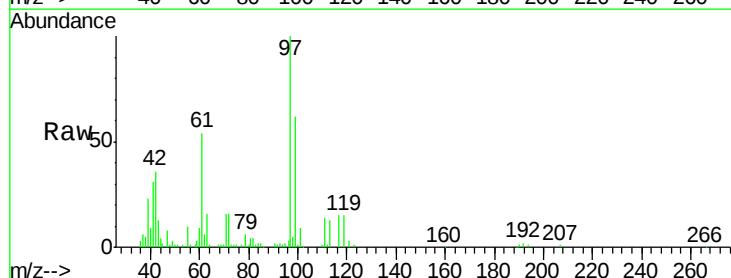
Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MSD

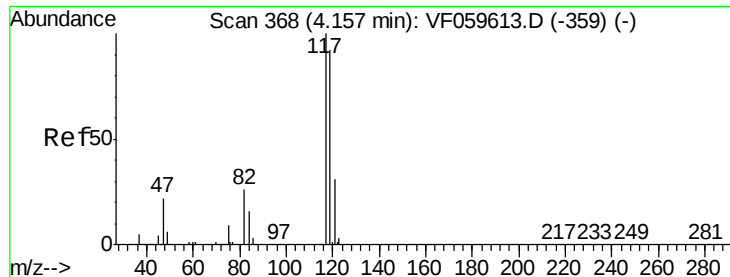
Tgt Ion: 75 Resp: 135429
 Ion Ratio Lower Upper
 75 100
 110 25.6 14.2 42.6
 77 30.5 20.3 30.5#



#37
 Ethyl Acetate
 Concen: 13.320 ug/l
 RT: 4.24 min Scan# 376
 Delta R.T. -0.04 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

Tgt Ion: 43 Resp: 15786
 Ion Ratio Lower Upper
 43 100
 61 421.2 101.9 152.9#
 70 8.7 7.9 11.9

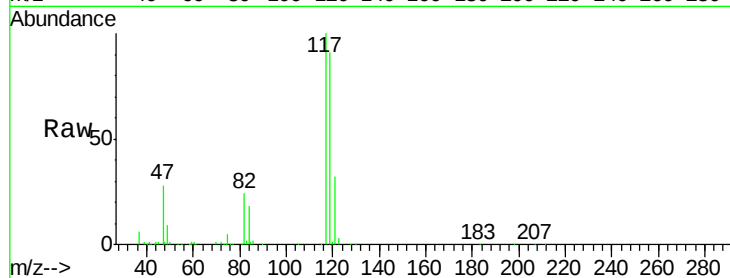




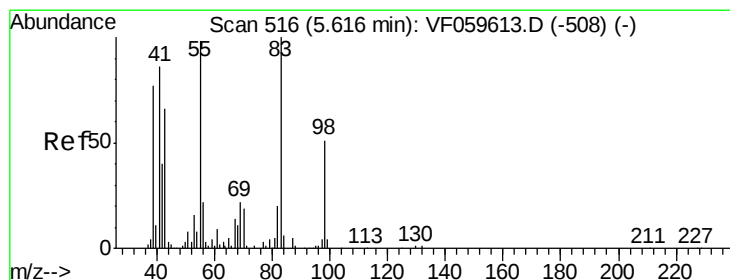
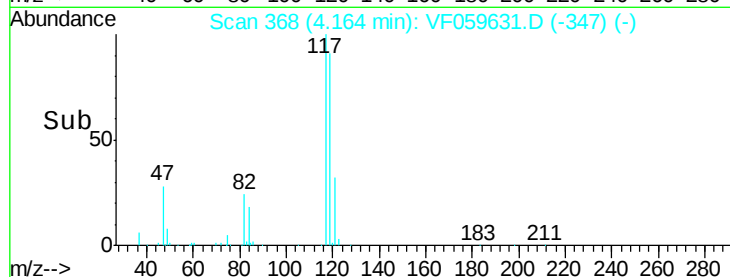
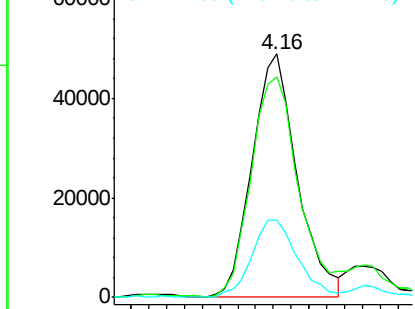
#38
Carbon Tetrachloride
Concen: 37.737 ug/l
RT: 4.16 min Scan# 368
Delta R.T. 0.01 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MSD

Tgt Ion: 117 Resp: 171662
Ion Ratio Lower Upper
117 100
119 90.5 74.2 111.4
121 31.6 24.7 37.1

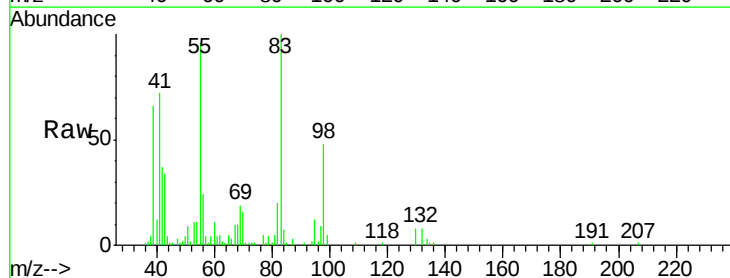


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

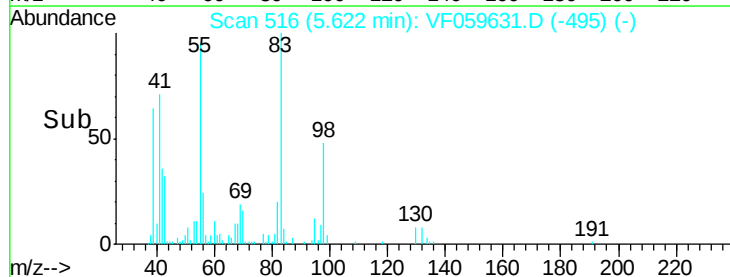
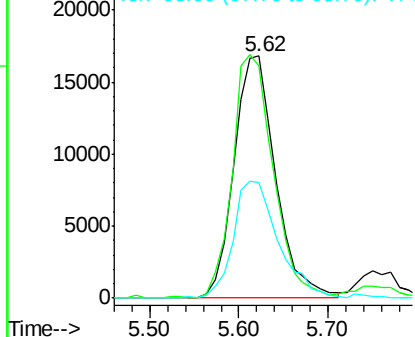


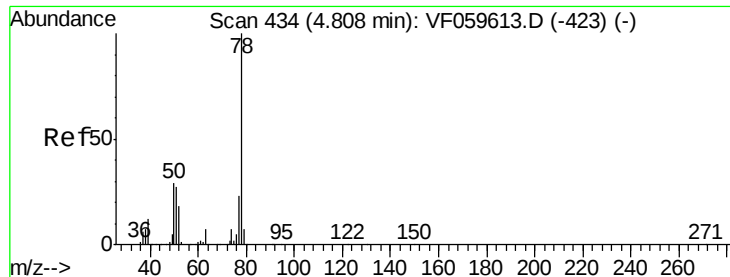
#39
Methylcyclohexane
Concen: 22.833 ug/l
RT: 5.62 min Scan# 516
Delta R.T. 0.01 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

Tgt Ion: 83 Resp: 54608
Ion Ratio Lower Upper
83 100
55 96.0 78.5 117.7
98 47.8 41.1 61.7



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 47.081 ug/l

RT: 4.79 min Scan# 432

Delta R.T. -0.01 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

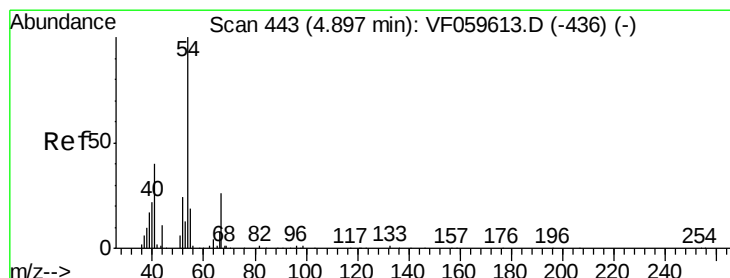
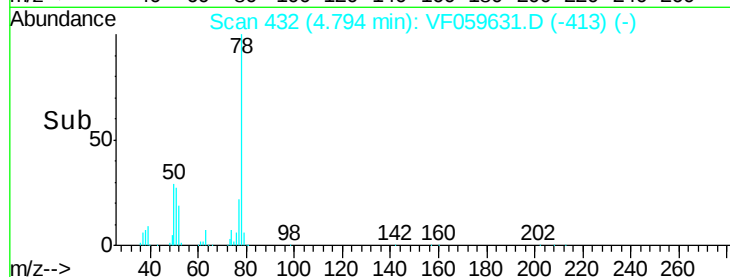
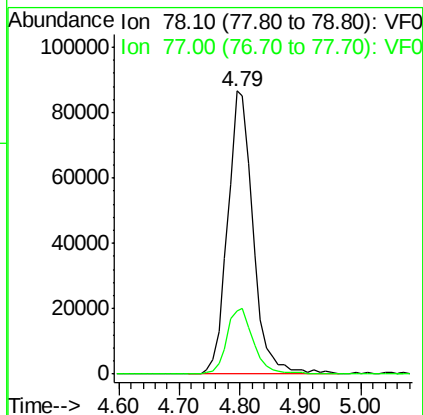
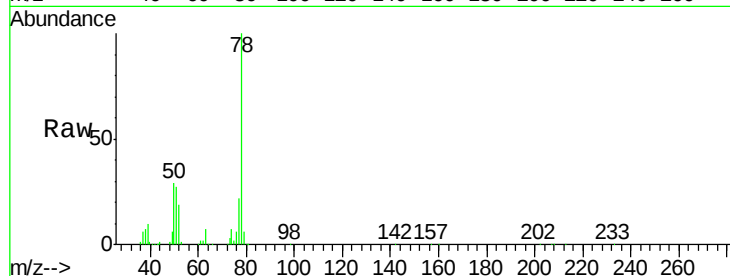
GL-TOPSOIL-09MSD

Tgt Ion: 78 Resp: 253640

Ion Ratio Lower Upper

78 100

77 22.5 18.4 27.6



#41

Methacrylonitrile

Concen: 30.401 ug/l

RT: 4.91 min Scan# 444

Delta R.T. 0.02 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Tgt Ion: 41 Resp: 18471

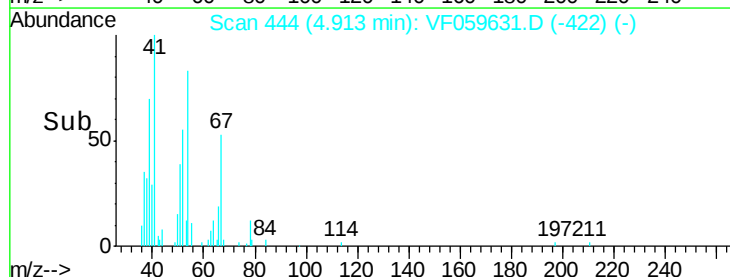
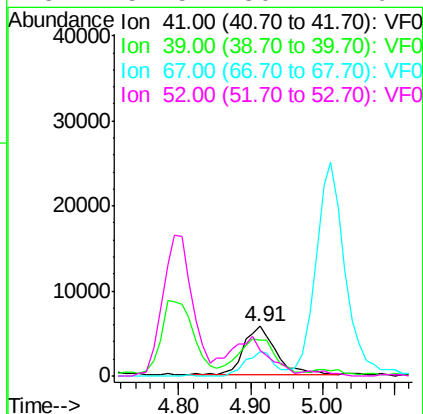
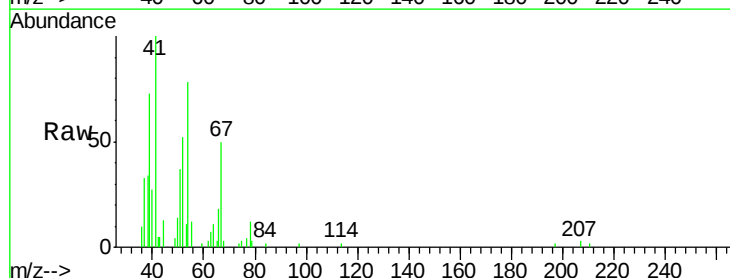
Ion Ratio Lower Upper

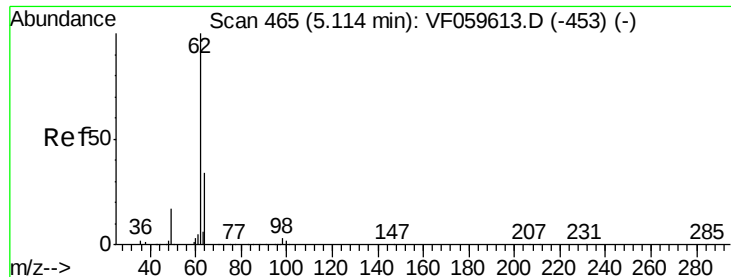
41 100

39 72.8 58.2 87.4

67 49.7 51.0 76.6#

52 51.5 80.1 120.1#





#42

1,2-Dichloroethane

Concen: 42.962 ug/l

RT: 5.11 min Scan# 464

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

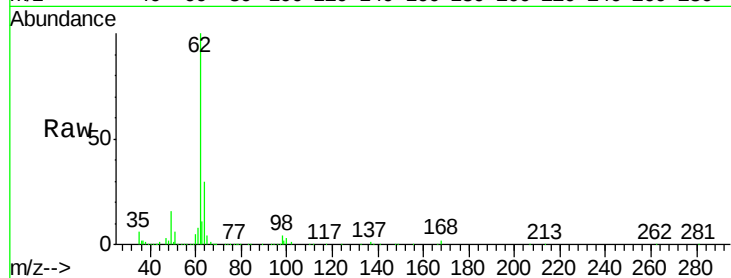
GL-TOPSOIL-09MSD

Tgt Ion: 62 Resp: 156265

Ion Ratio Lower Upper

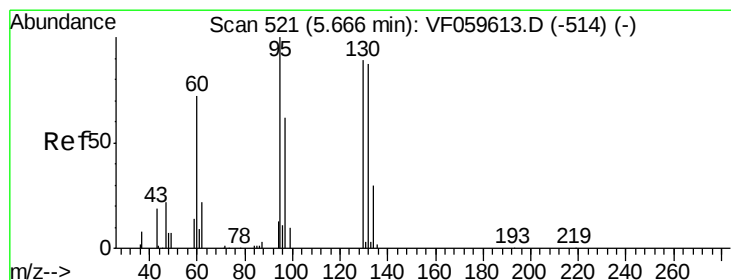
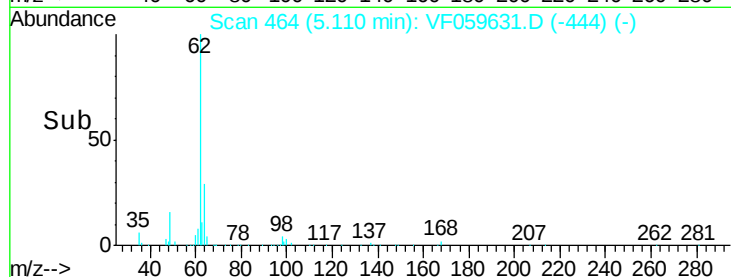
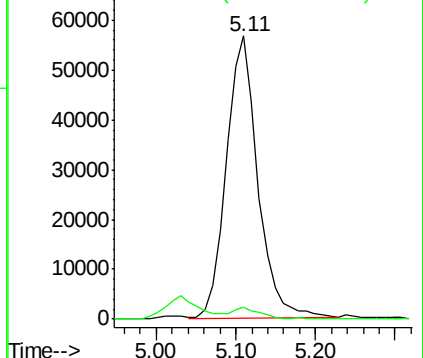
62 100

98 4.0 0.0 8.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#44

Trichloroethene

Concen: 45.083 ug/l

RT: 5.66 min Scan# 520

Delta R.T. -0.00 min

Lab File: VF059631.D

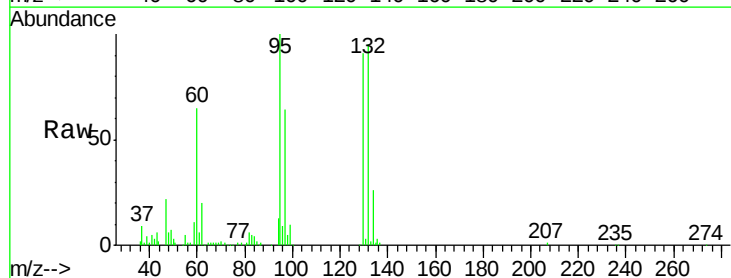
Acq: 23 Jul 2018 23:12

Tgt Ion: 130 Resp: 93619

Ion Ratio Lower Upper

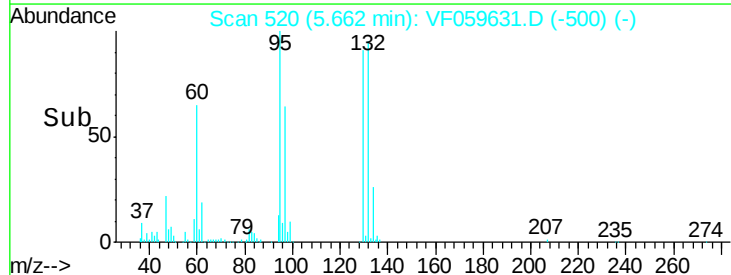
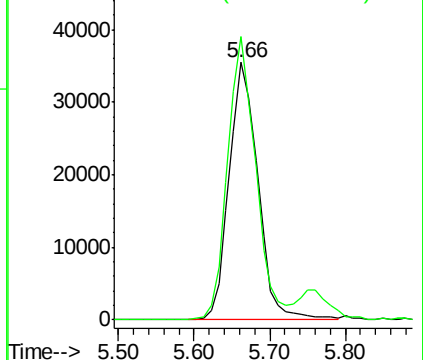
130 100

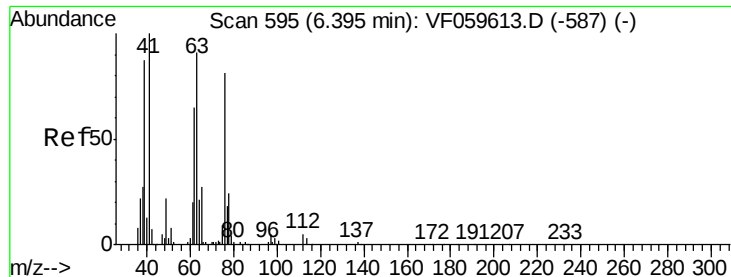
95 110.0 0.0 226.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 46.791 ug/l

RT: 6.39 min Scan# 594

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

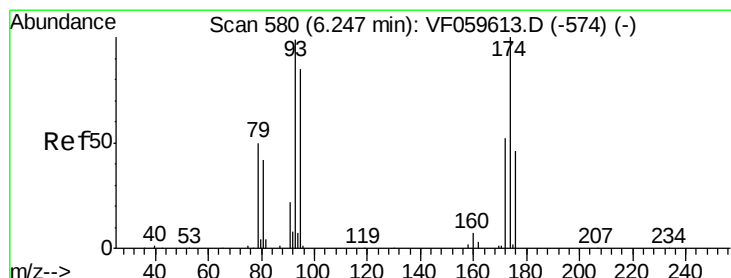
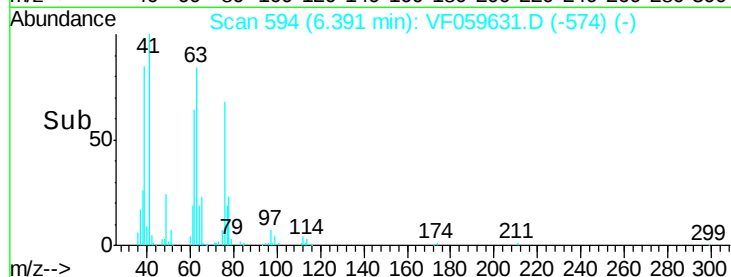
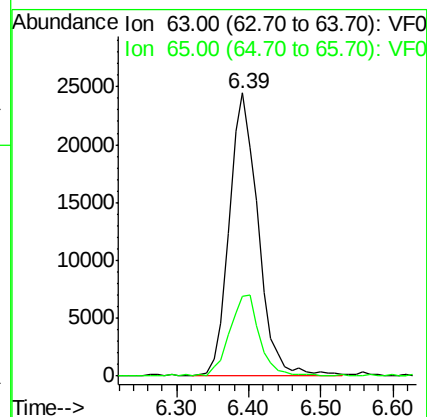
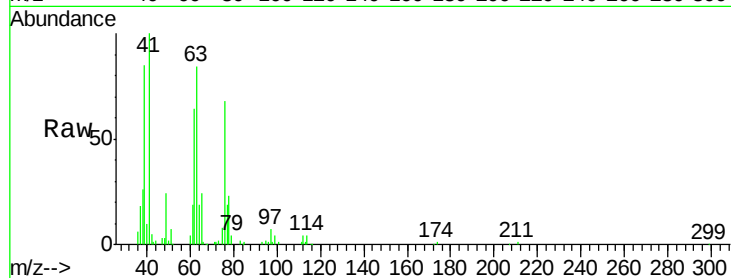
GL-TOPSOIL-09MSD

Tgt Ion: 63 Resp: 68245

Ion Ratio Lower Upper

63 100

65 28.1 23.4 35.0



#46

Dibromomethane

Concen: 42.789 ug/l

RT: 6.24 min Scan# 579

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

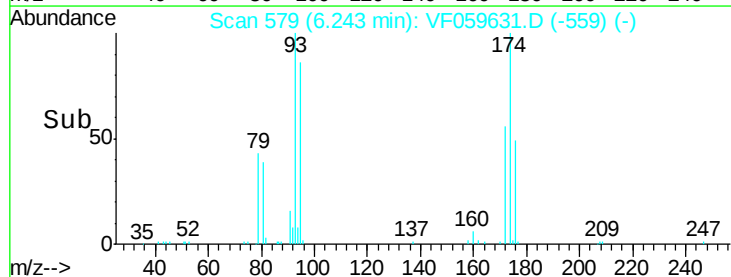
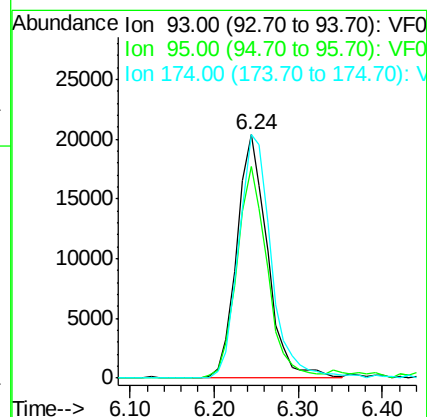
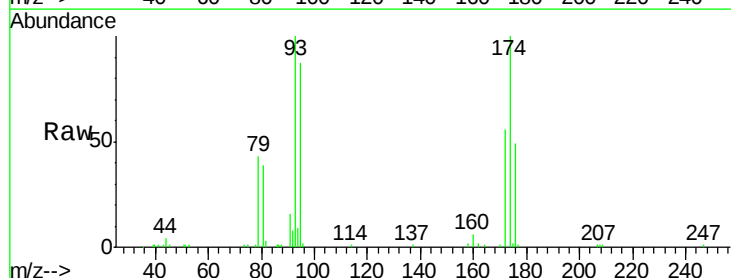
Tgt Ion: 93 Resp: 51694

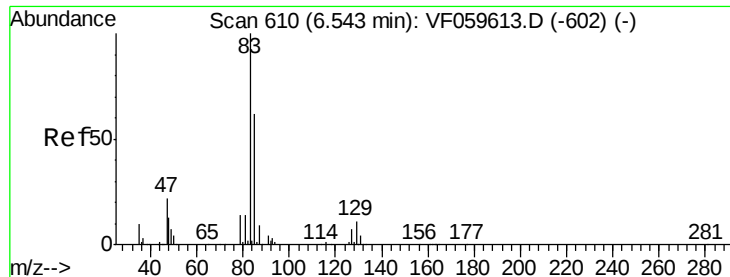
Ion Ratio Lower Upper

93 100

95 89.1 68.6 102.8

174 99.8 80.8 121.2





#47

Bromodichloromethane

Concen: 37.671 ug/l

RT: 6.54 min Scan# 609

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

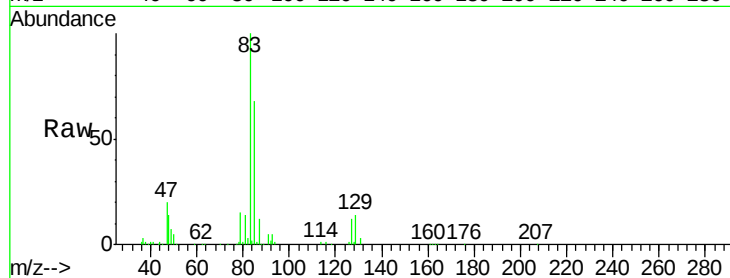
Tgt Ion: 83 Resp: 138118

Ion Ratio Lower Upper

83 100

85 68.3 49.4 74.0

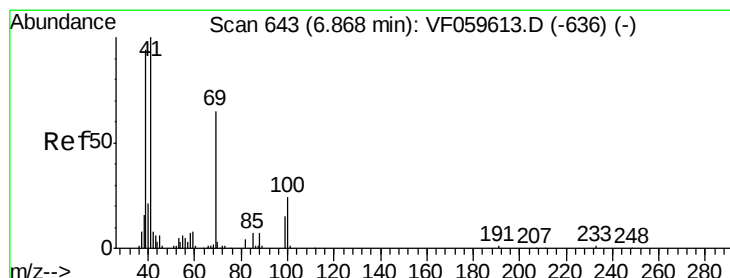
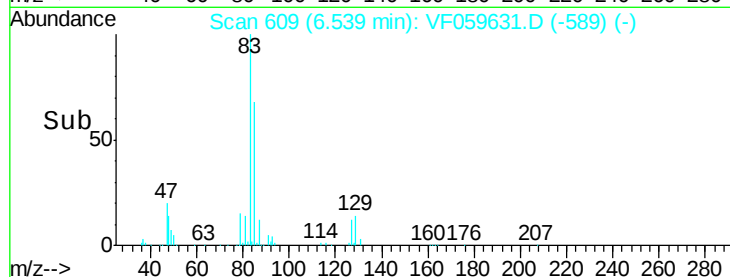
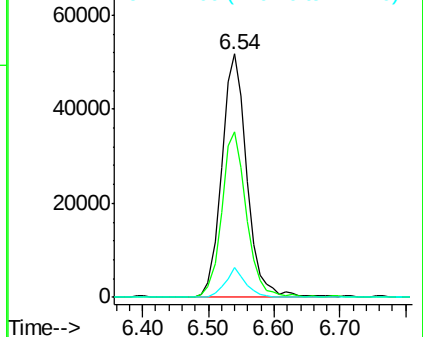
127 12.0 5.9 8.9#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 50.120 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

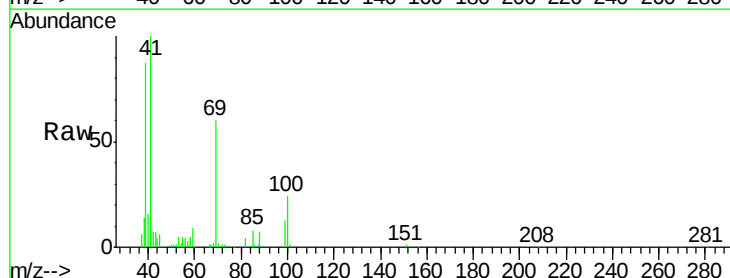
Tgt Ion: 41 Resp: 56773

Ion Ratio Lower Upper

41 100

69 59.9 51.6 77.4

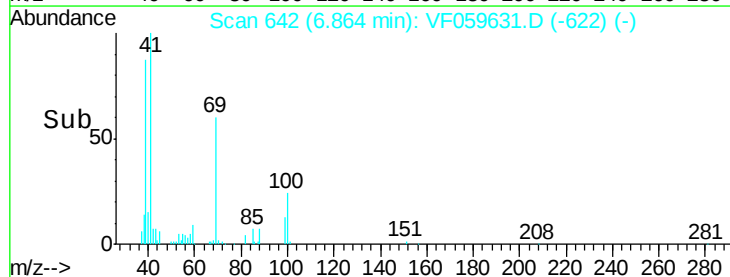
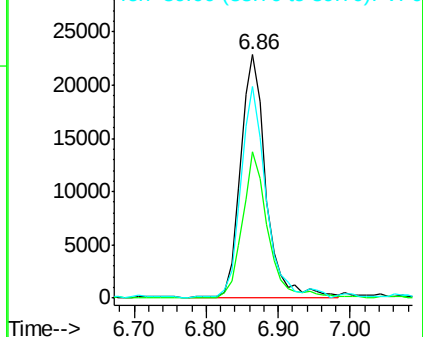
39 86.7 76.3 114.5

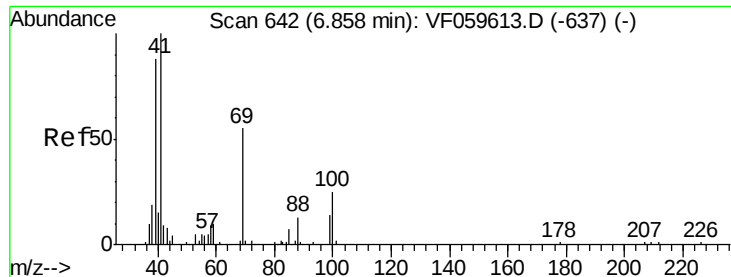


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

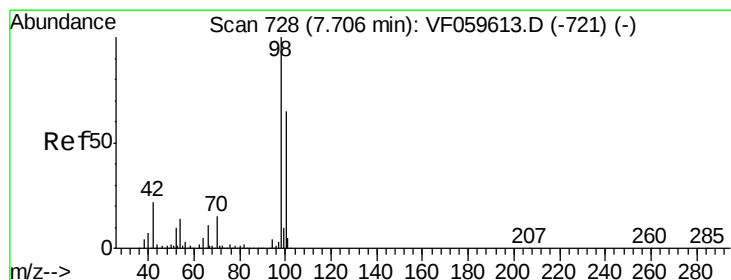
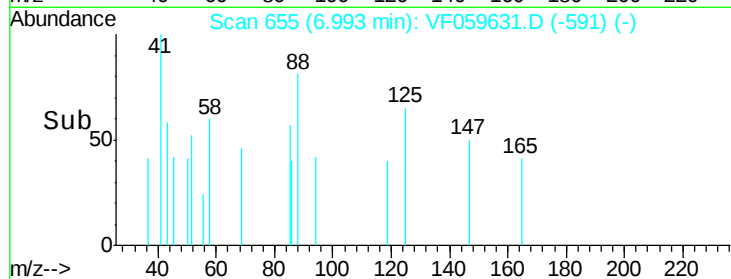
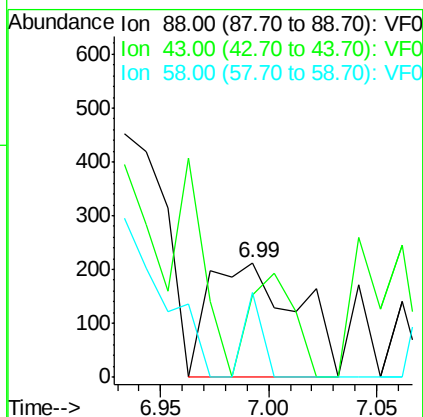
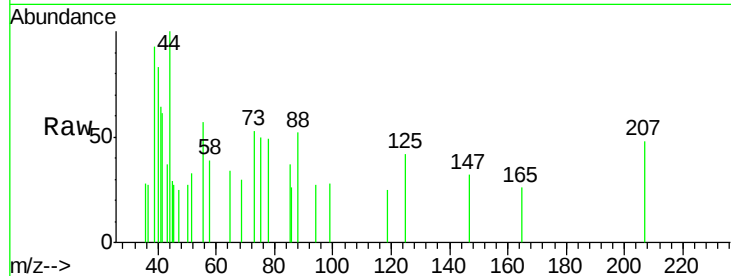




#49
1,4-Dioxane
Concen: 62.206 ug/l
RT: 6.99 min Scan# 655
Delta R.T. 0.13 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

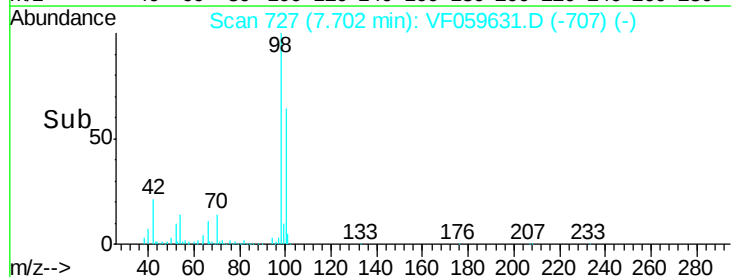
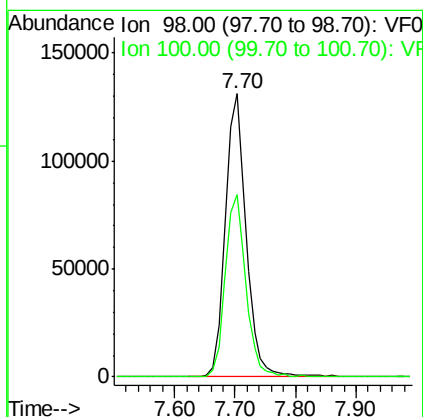
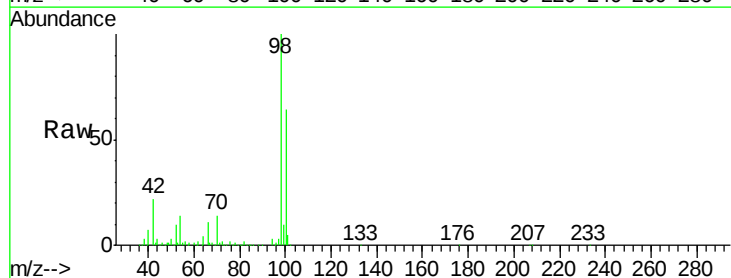
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MSD

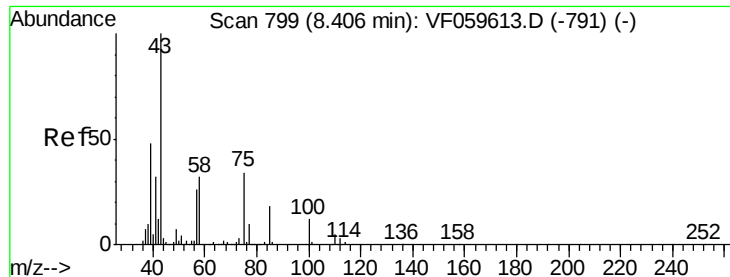
Tgt Ion: 88 Resp: 597
Ion Ratio Lower Upper
88 100
43 71.4 54.2 81.4
58 74.2 54.3 81.5



#50
Toluene-d8
Concen: 46.649 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

Tgt Ion: 98 Resp: 313694
Ion Ratio Lower Upper
98 100
100 64.2 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 196.768 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

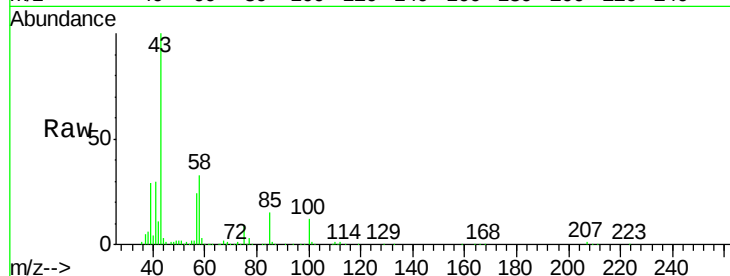
GL-TOPSOIL-09MSD

Tgt Ion: 43 Resp: 217106

Ion Ratio Lower Upper

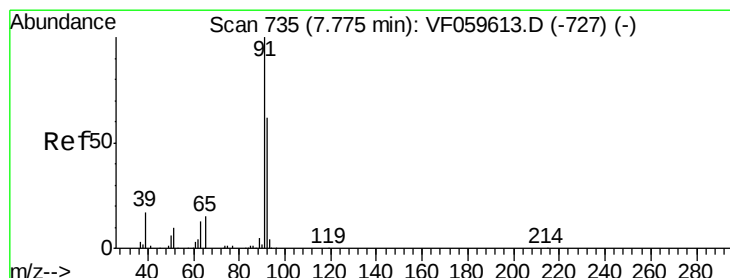
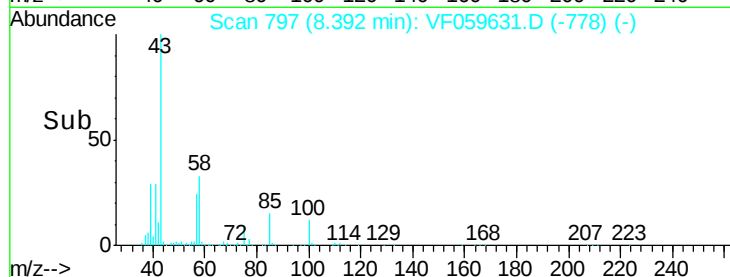
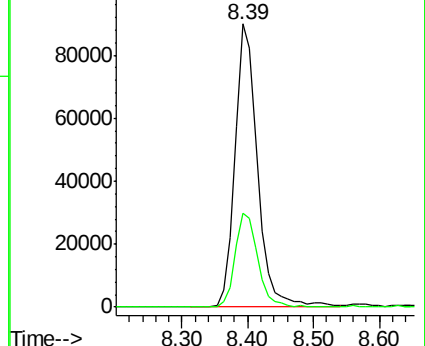
43 100

58 33.1 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 40.746 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF059631.D

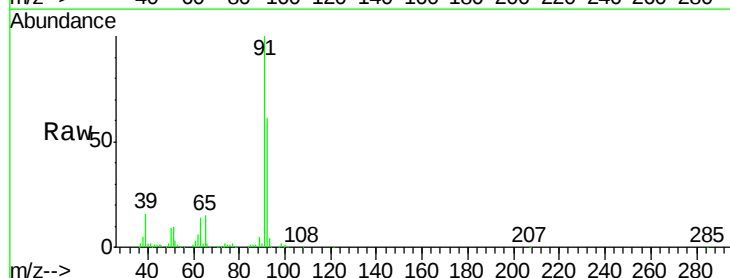
Acq: 23 Jul 2018 23:12

Tgt Ion: 92 Resp: 167120

Ion Ratio Lower Upper

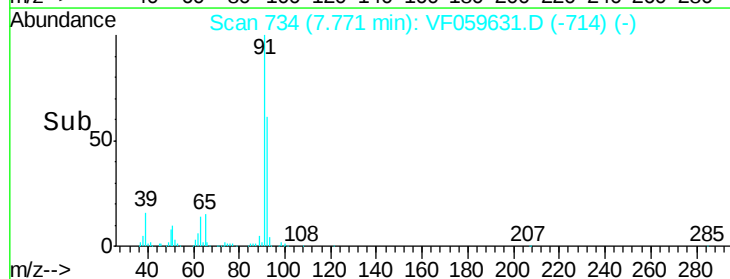
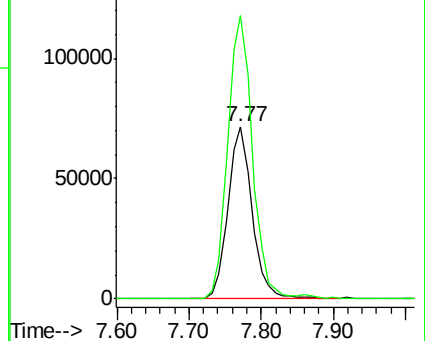
92 100

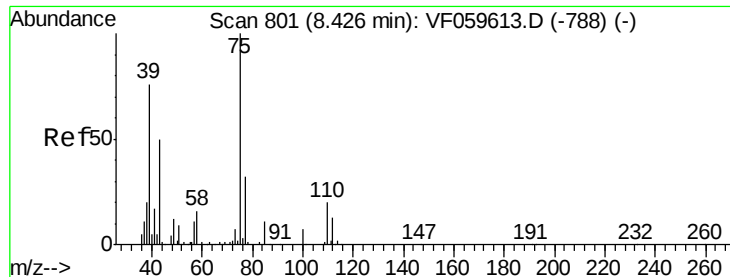
91 164.1 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 33.294 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

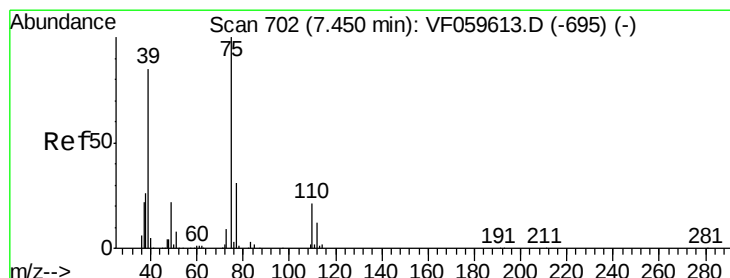
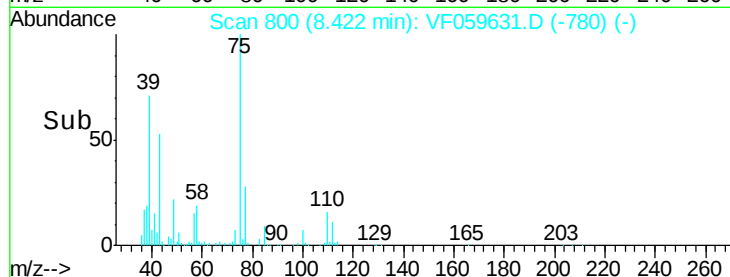
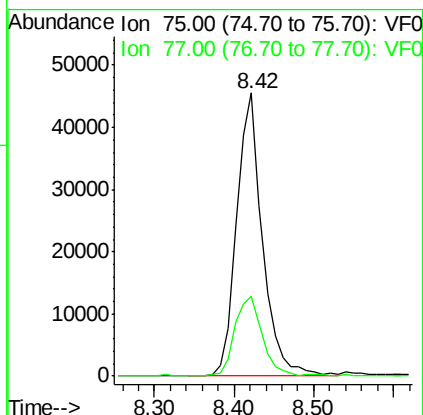
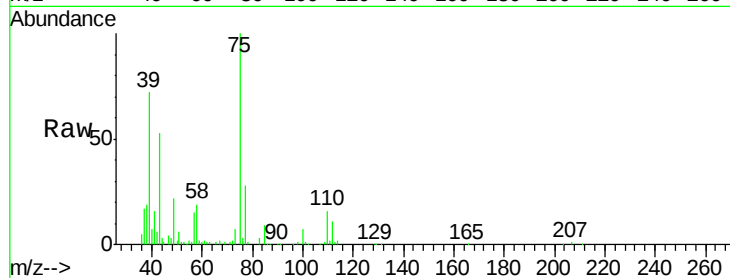
GL-TOPSOIL-09MSD

Tgt Ion: 75 Resp: 103199

Ion Ratio Lower Upper

75 100

77 28.3 25.6 38.4



#54

cis-1,3-Dichloropropene

Concen: 32.871 ug/l

RT: 7.45 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

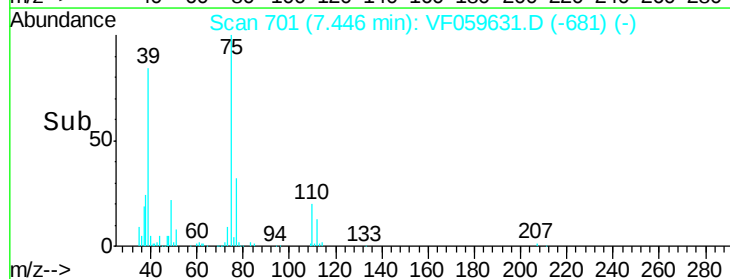
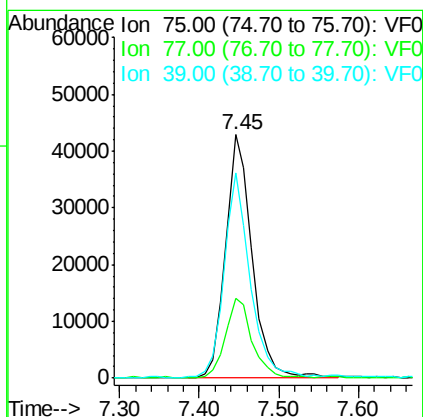
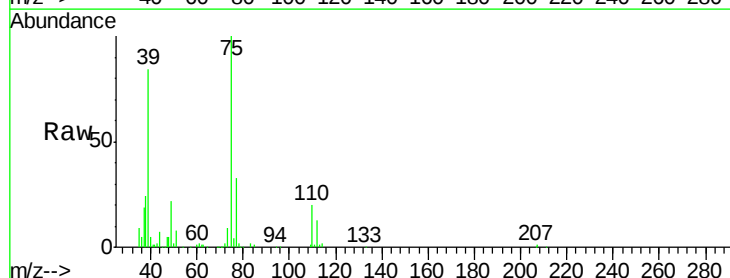
Tgt Ion: 75 Resp: 100999

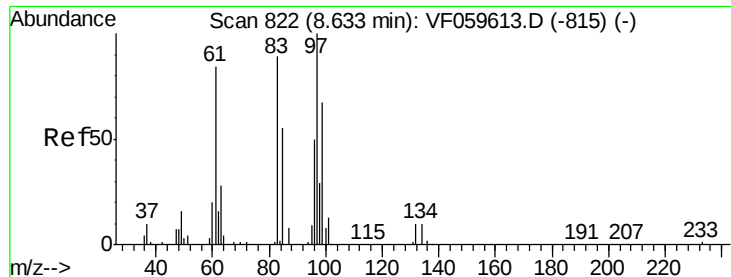
Ion Ratio Lower Upper

75 100

77 32.5 24.6 37.0

39 84.2 67.8 101.6





#55

1,1,2-Trichloroethane

Concen: 38.623 ug/l

RT: 8.63 min Scan# 821

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

Tgt Ion: 97 Resp: 54205

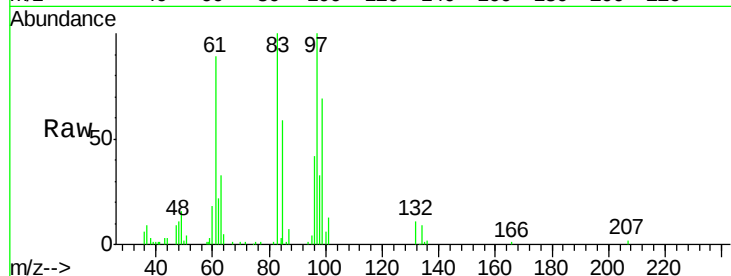
Ion Ratio Lower Upper

97 100

83 100.1 71.8 107.6

85 59.5 43.9 65.9

99 69.5 53.5 80.3

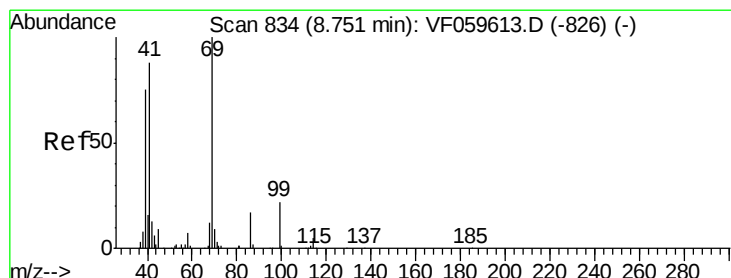
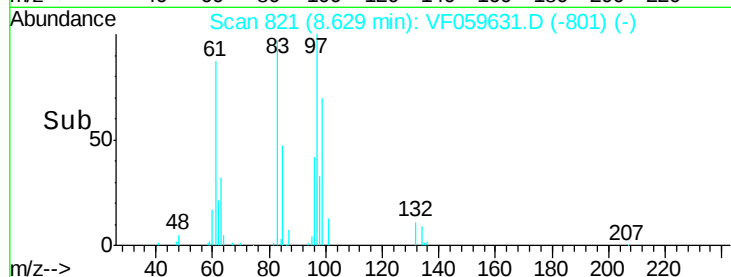
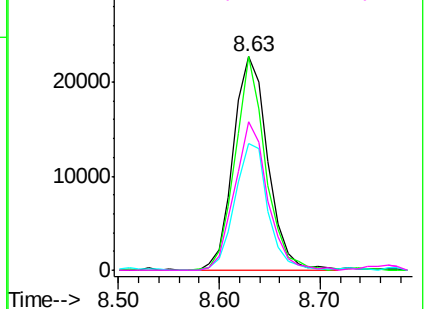


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 2.782 ug/l

RT: 8.75 min Scan# 833

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

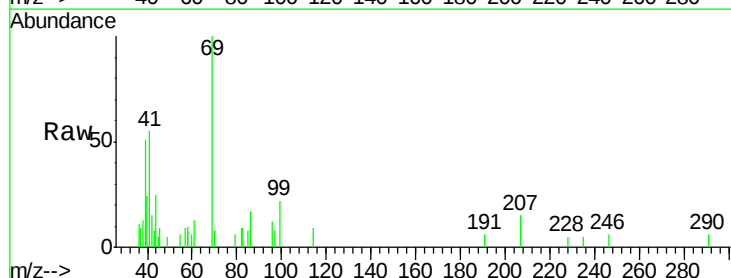
Tgt Ion: 69 Resp: 4347

Ion Ratio Lower Upper

69 100

41 54.7 70.8 106.2#

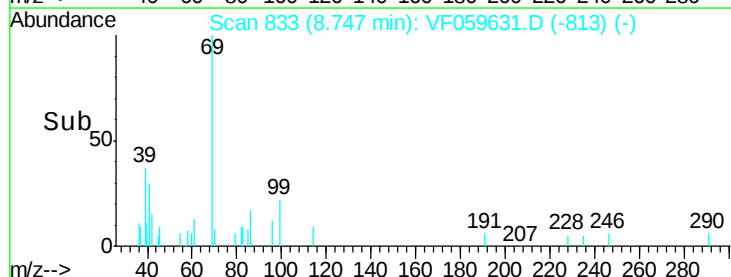
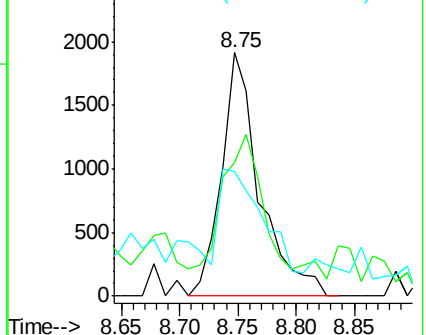
39 51.0 60.7 91.1#

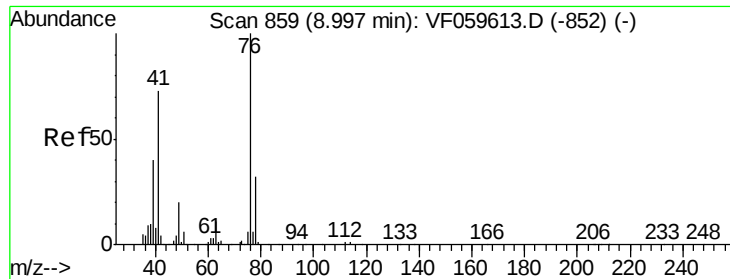


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 41.396 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

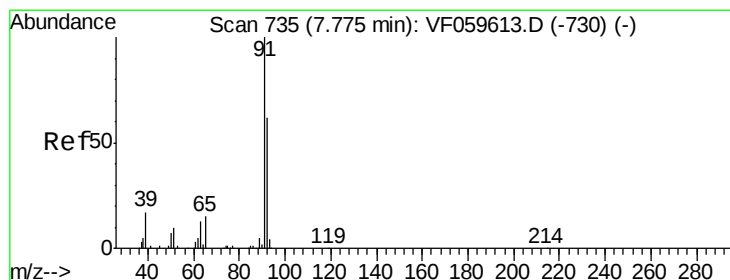
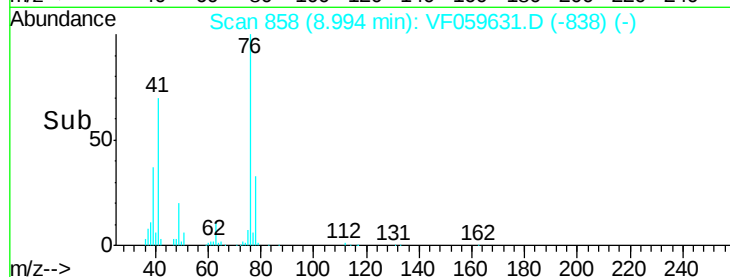
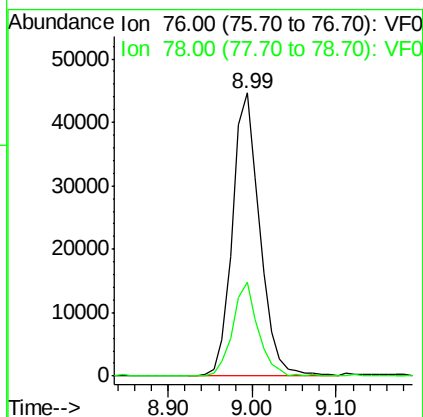
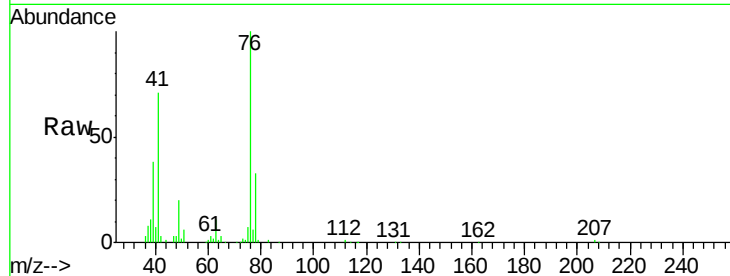
GL-TOPSOIL-09MSD

Tgt Ion: 76 Resp: 101090

Ion Ratio Lower Upper

76 100

78 33.0 25.3 37.9



#58

2-Chloroethyl Vinyl ether

Concen: 196.679 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF059631.D

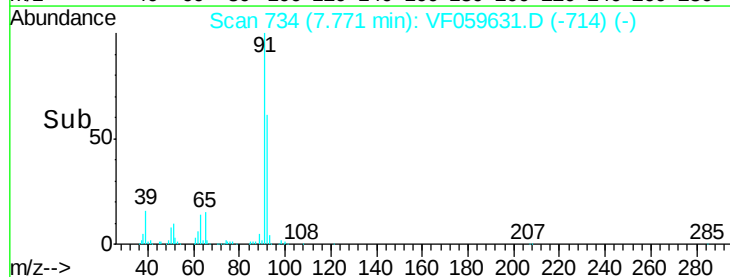
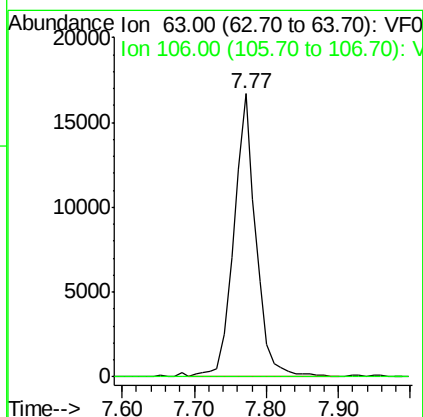
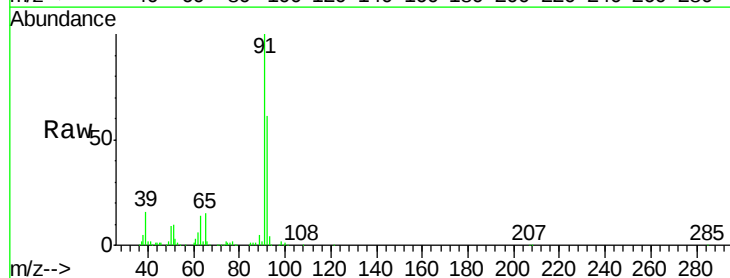
Acq: 23 Jul 2018 23:12

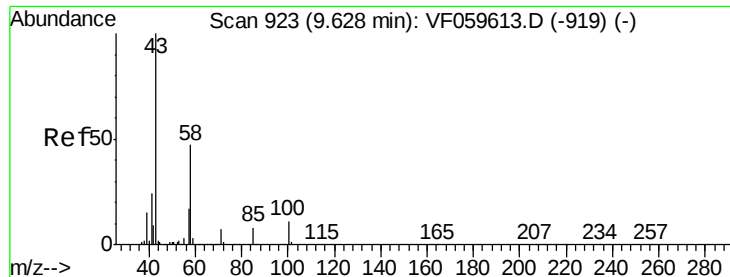
Tgt Ion: 63 Resp: 35554

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

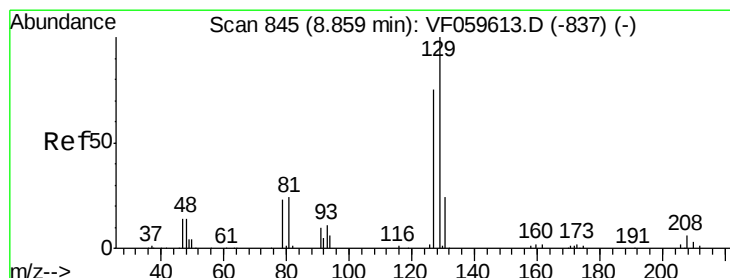
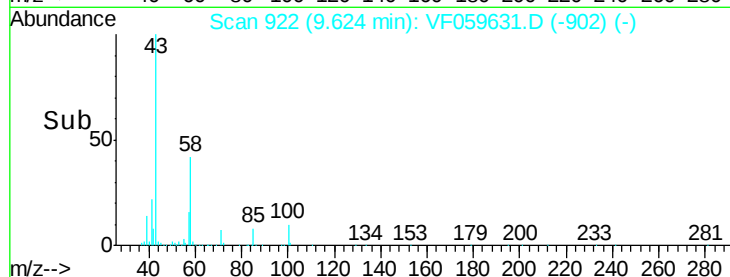
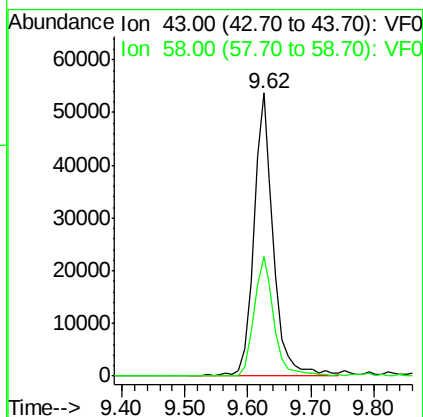
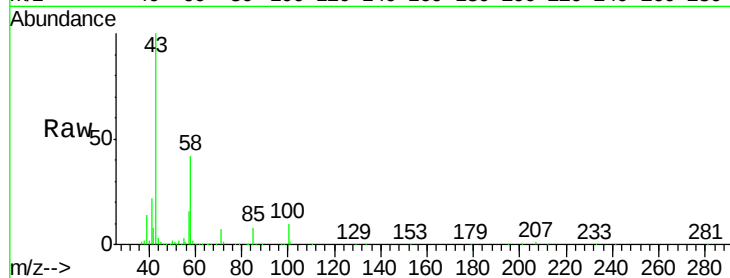




#59
2-Hexanone
Concen: 130.344 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

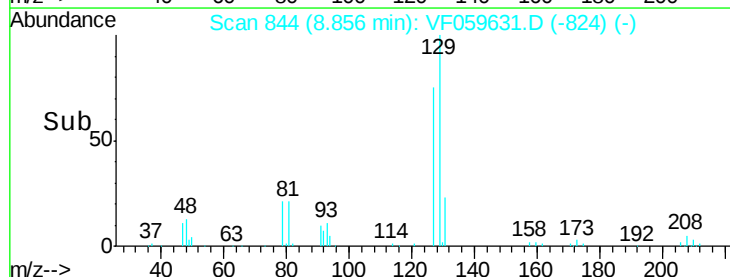
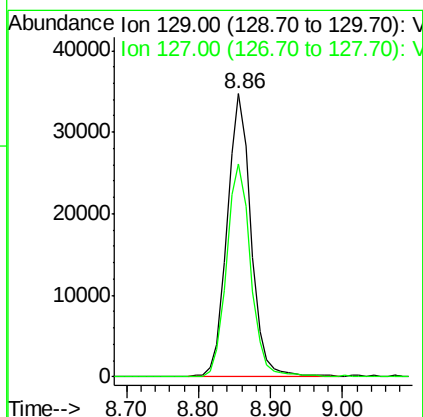
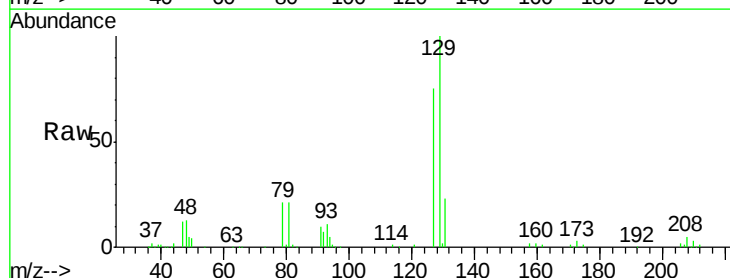
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MSD

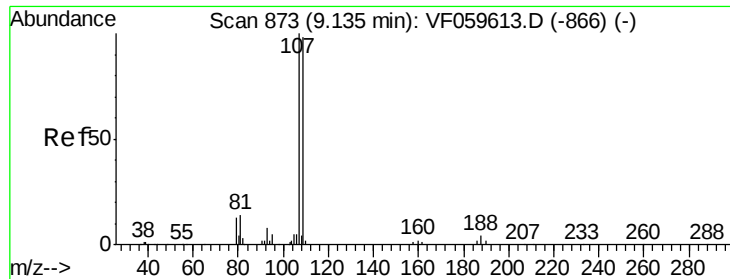
Tgt Ion: 43 Resp: 116713
Ion Ratio Lower Upper
43 100
58 42.4 21.1 63.4



#60
Dibromochloromethane
Concen: 32.231 ug/l
RT: 8.86 min Scan# 844
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

Tgt Ion: 129 Resp: 80553
Ion Ratio Lower Upper
129 100
127 75.0 37.5 112.7





#61

1,2-Dibromoethane

Concen: 39.504 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

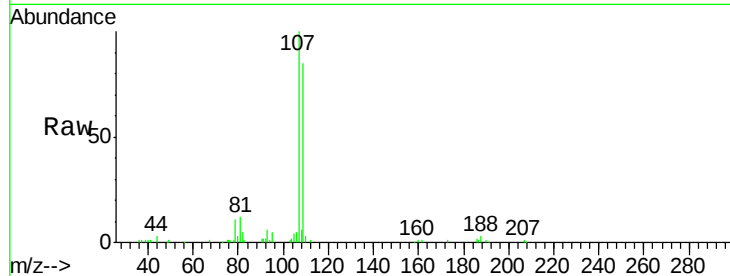
GL-TOPSOIL-09MSD

Tgt Ion: 107 Resp: 63545

Ion Ratio Lower Upper

107 100

109 84.8 78.2 117.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.13

25000

20000

15000

10000

5000

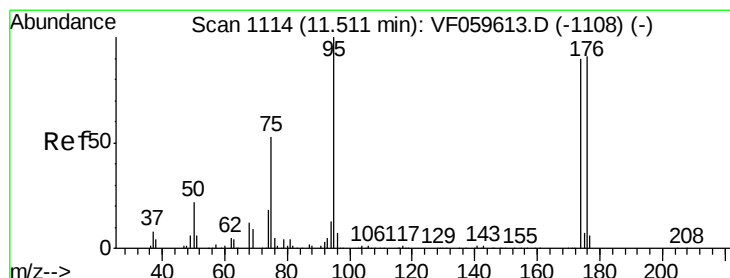
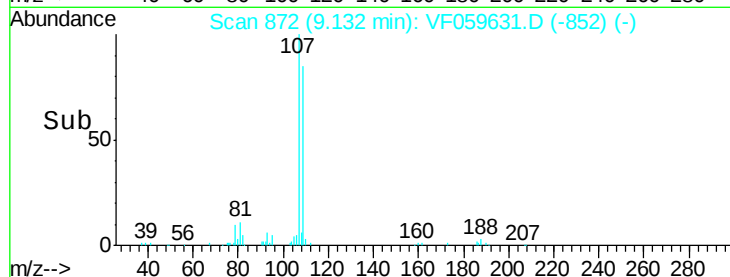
0

Time-->

9.00

9.10

9.20



#62

4-Bromofluorobenzene

Concen: 26.242 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

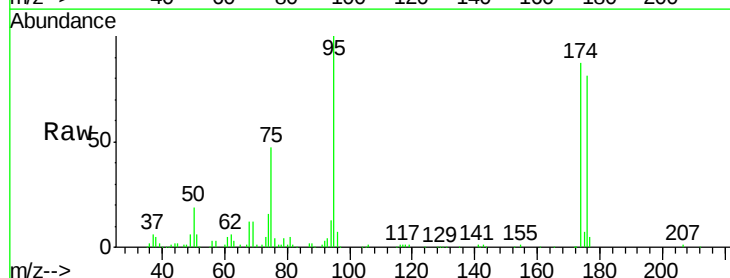
Tgt Ion: 95 Resp: 101866

Ion Ratio Lower Upper

95 100

174 87.0 0.0 180.6

176 81.4 0.0 182.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.51

80000

60000

40000

20000

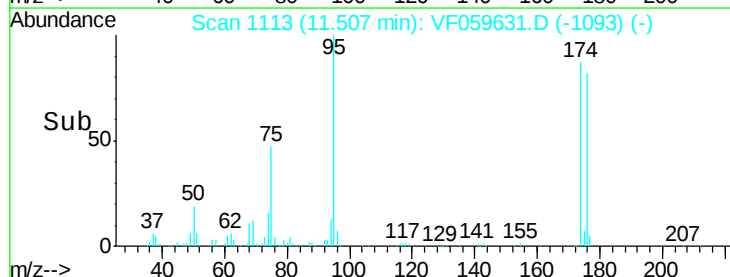
0

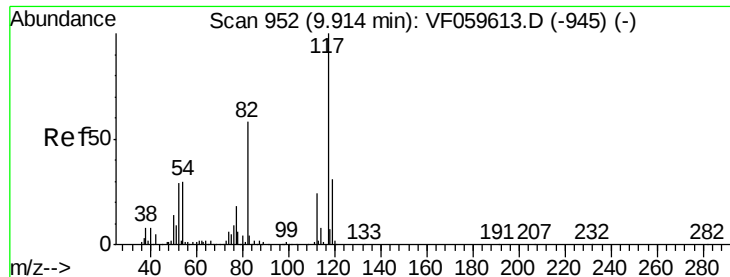
Time-->

11.40

11.50

11.60

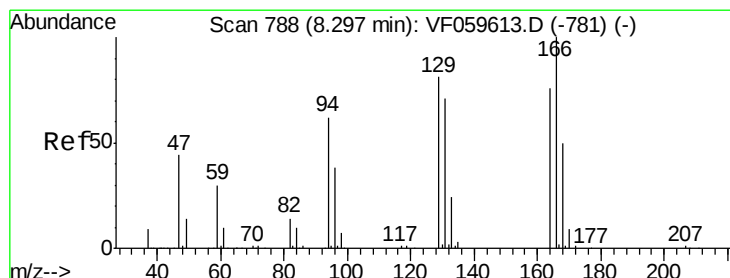
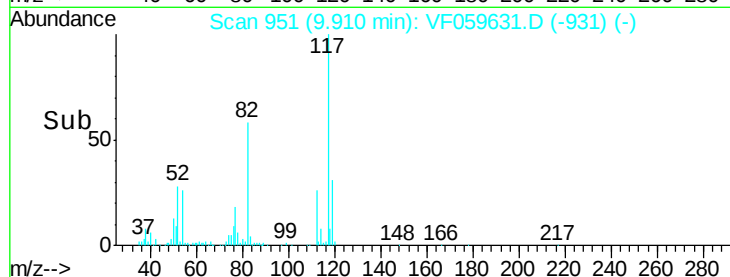
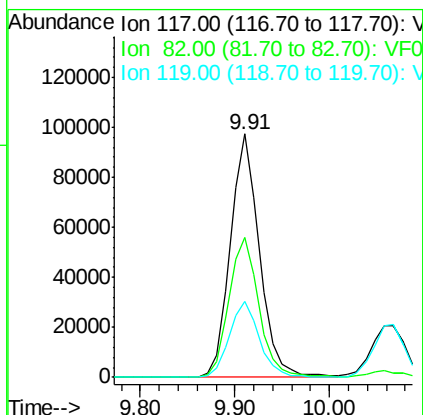
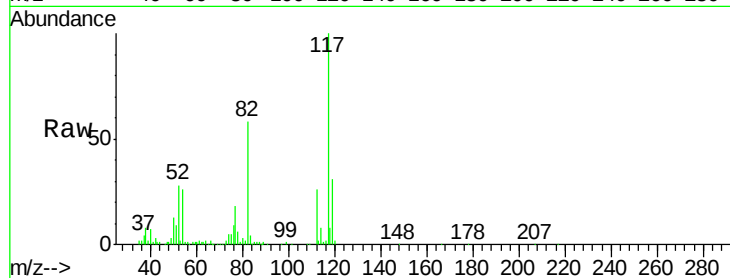




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

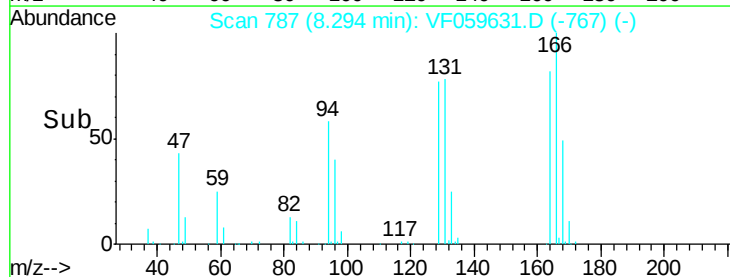
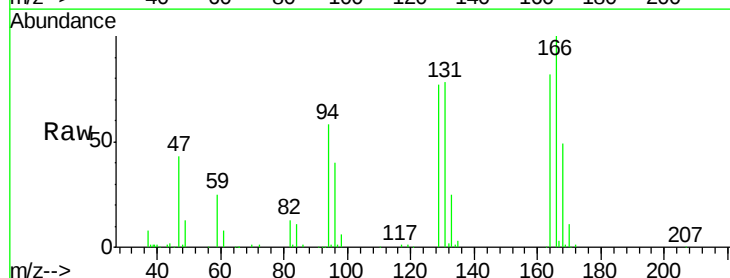
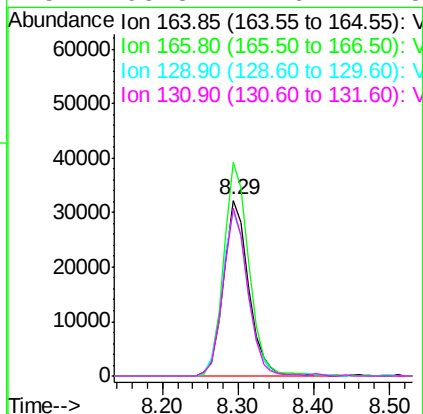
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MSD

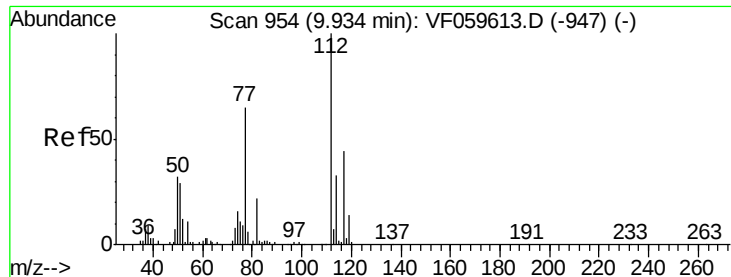
Tgt Ion:117 Resp: 207396
Ion Ratio Lower Upper
117 100
82 57.5 46.5 69.7
119 31.3 24.4 36.6



#64
Tetrachloroethene
Concen: 48.250 ug/l
RT: 8.29 min Scan# 787
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

Tgt Ion:164 Resp: 74313
Ion Ratio Lower Upper
164 100
166 121.7 104.8 157.2
129 94.1 85.3 127.9
131 95.3 74.6 111.8





#65

Chlorobenzene

Concen: 47.493 ug/l

RT: 9.93 min Scan# 953

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

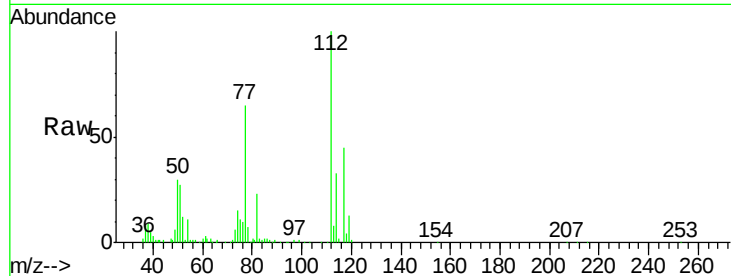
GL-TOPSOIL-09MSD

Tgt Ion:112 Resp: 181625

Ion Ratio Lower Upper

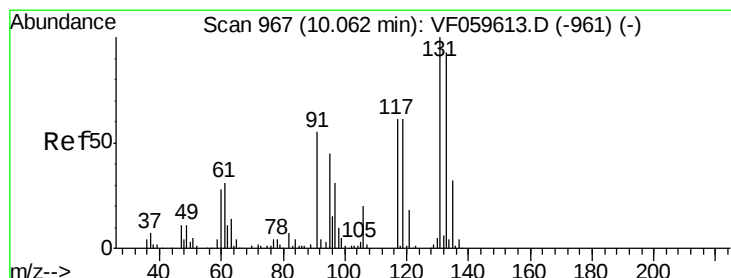
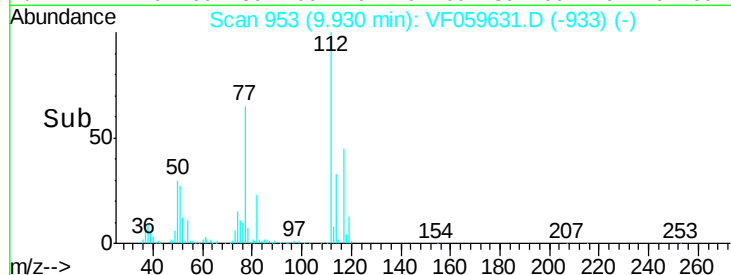
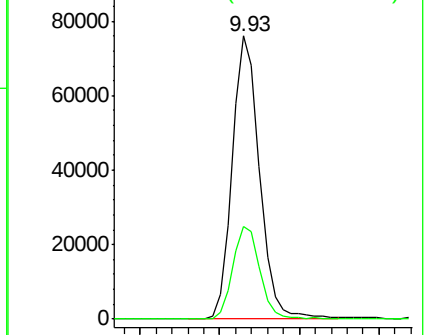
112 100

114 32.5 26.8 40.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 47.660 ug/l

RT: 10.06 min Scan# 966

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

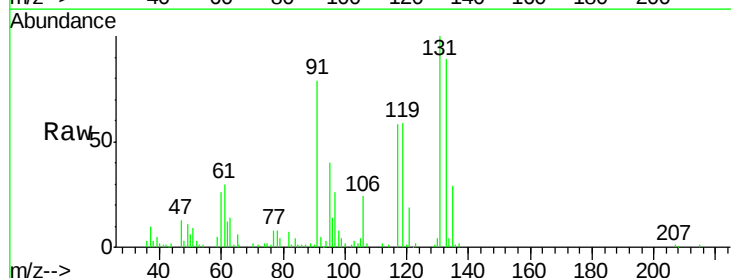
Tgt Ion:131 Resp: 82584

Ion Ratio Lower Upper

131 100

133 88.9 46.4 139.2

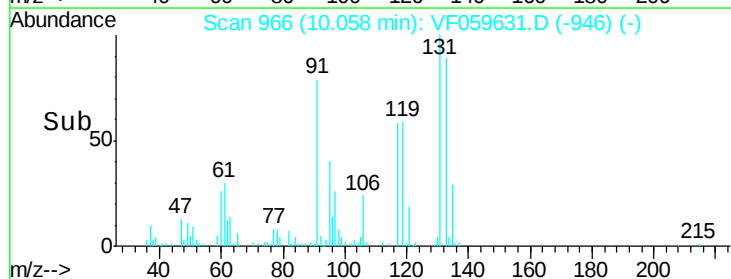
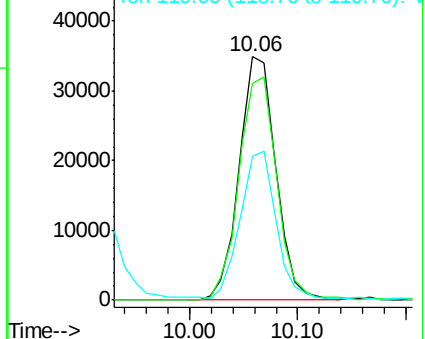
119 59.1 30.6 91.8

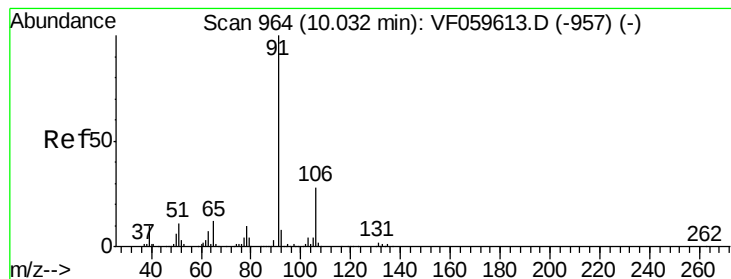


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 46.224 ug/l

RT: 10.03 min Scan# 963

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

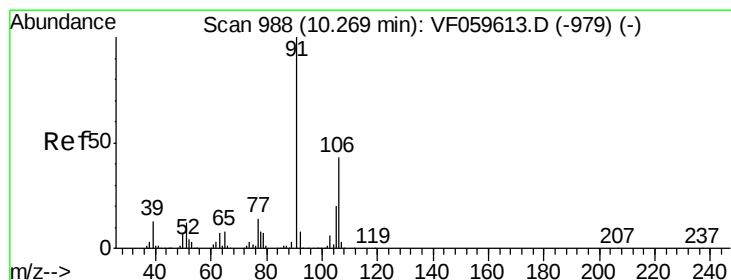
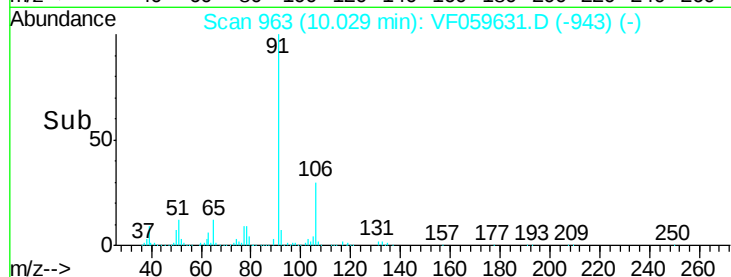
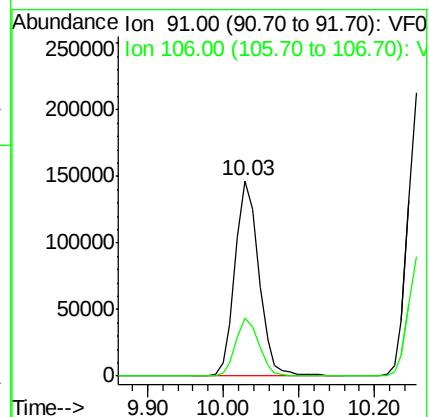
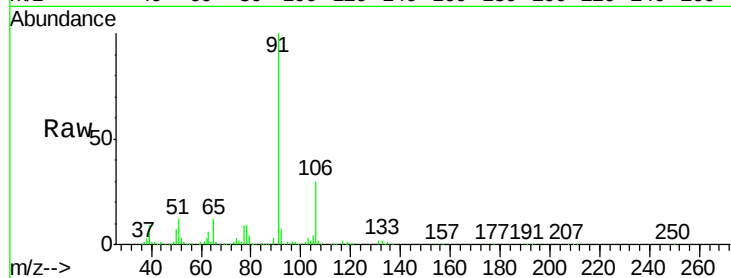
GL-TOPSOIL-09MSD

Tgt Ion: 91 Resp: 321425

Ion Ratio Lower Upper

91 100

106 29.5 22.5 33.7



#68

m/p-Xylenes

Concen: 86.316 ug/l

RT: 10.27 min Scan# 987

Delta R.T. -0.00 min

Lab File: VF059631.D

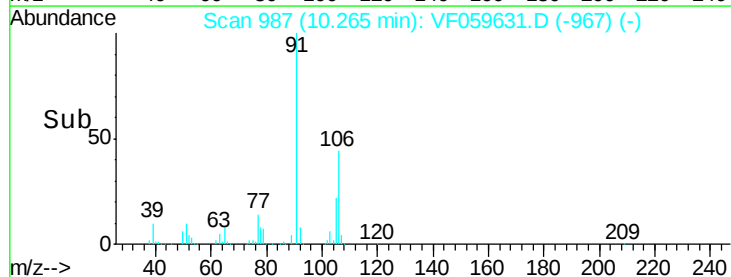
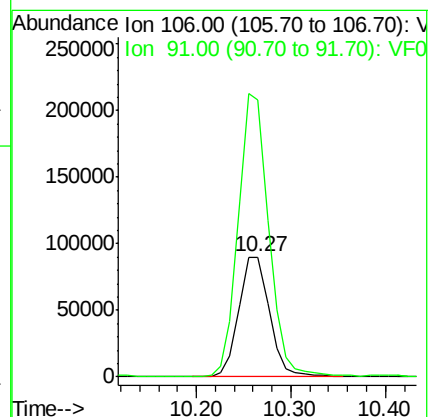
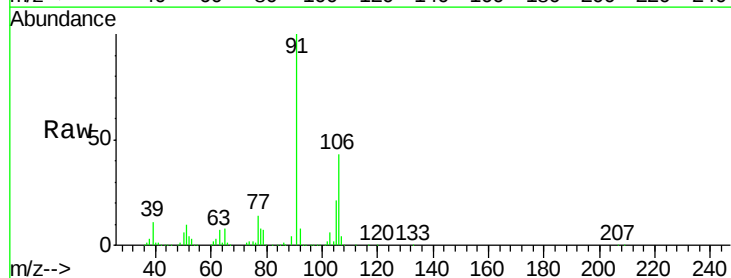
Acq: 23 Jul 2018 23:12

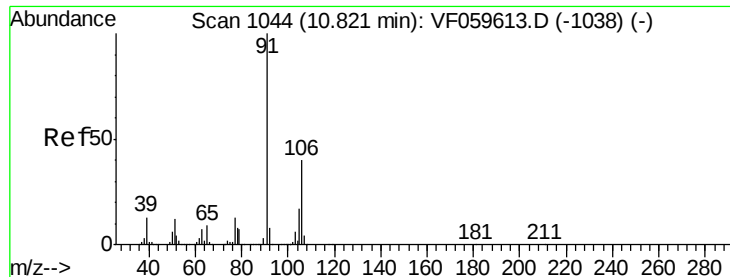
Tgt Ion: 106 Resp: 203982

Ion Ratio Lower Upper

106 100

91 231.8 187.0 280.4

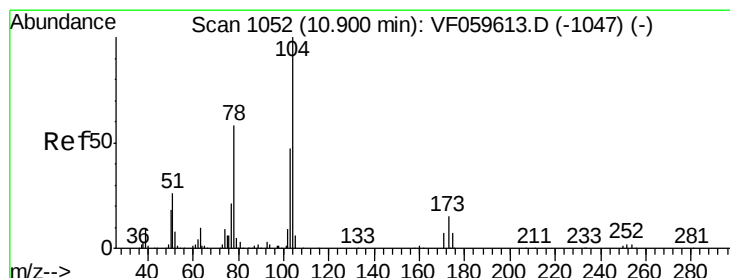
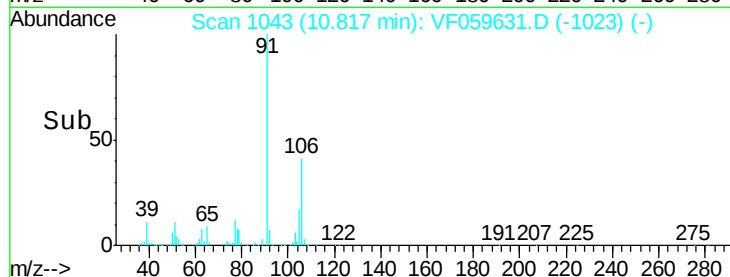
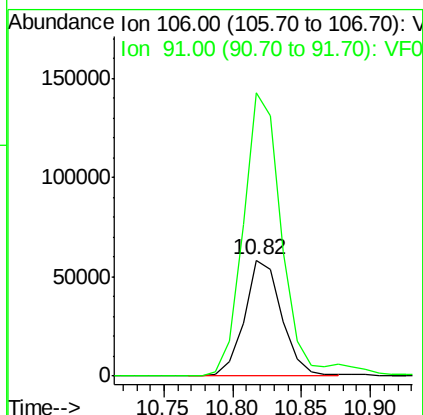
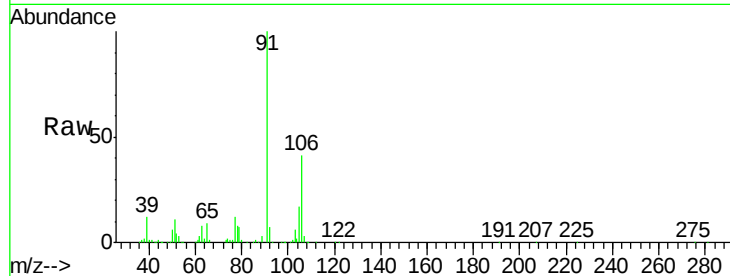




#69
o-Xylene
Concen: 42.976 ug/l
RT: 10.82 min Scan# 1043
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

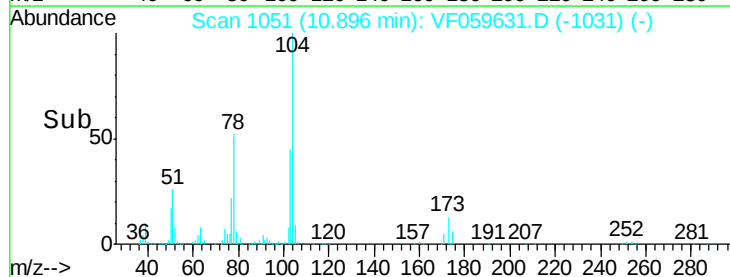
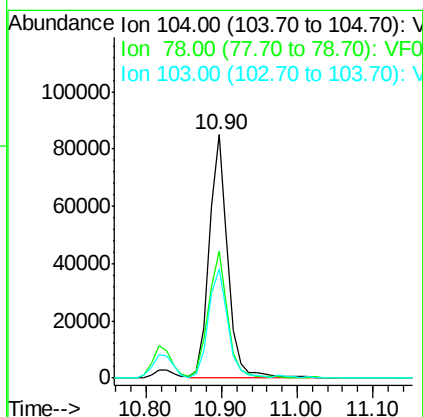
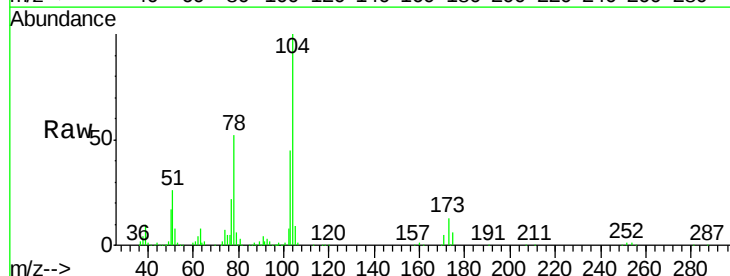
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MSD

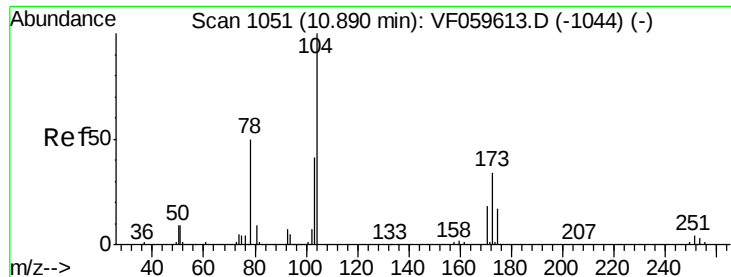
Tgt Ion:106 Resp: 110309
Ion Ratio Lower Upper
106 100
91 244.5 125.8 377.3



#70
Styrene
Concen: 37.895 ug/l
RT: 10.90 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

Tgt Ion:104 Resp: 145882
Ion Ratio Lower Upper
104 100
78 52.1 47.4 71.2
103 44.7 38.8 58.2





#71

Bromoform

Concen: 34.664 ug/l

RT: 10.88 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

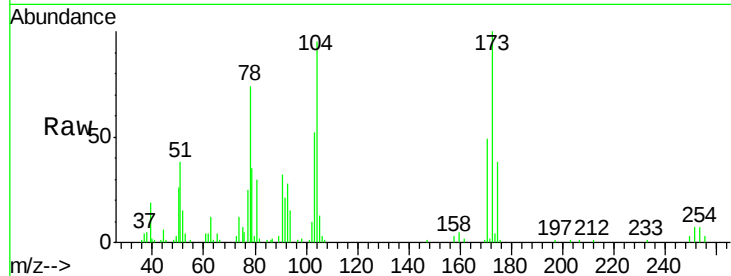
Tgt Ion:173 Resp: 37219

Ion Ratio Lower Upper

173 100

175 38.5 25.1 75.2

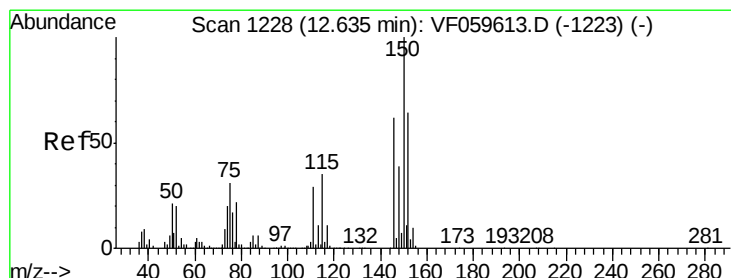
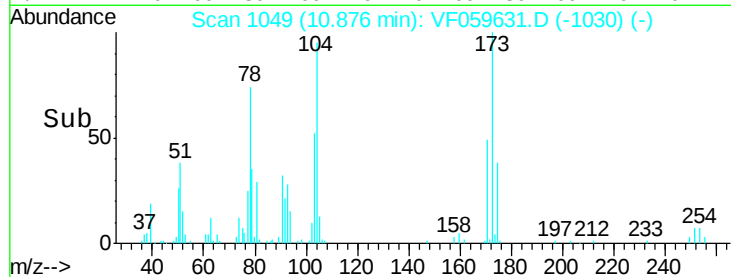
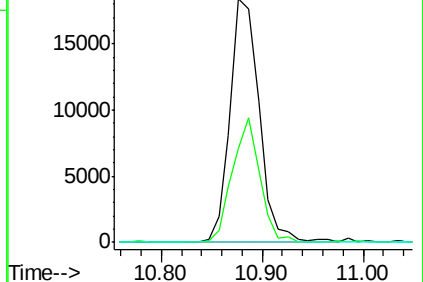
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

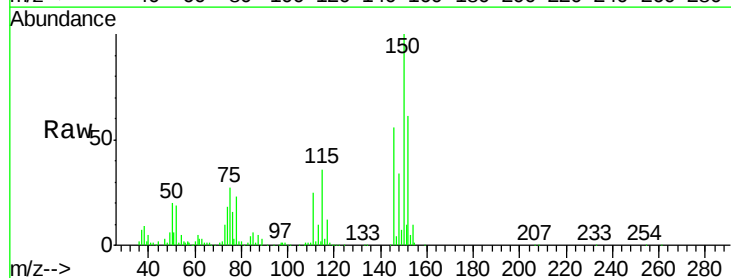
Tgt Ion:152 Resp: 66716

Ion Ratio Lower Upper

152 100

115 58.0 27.8 83.4

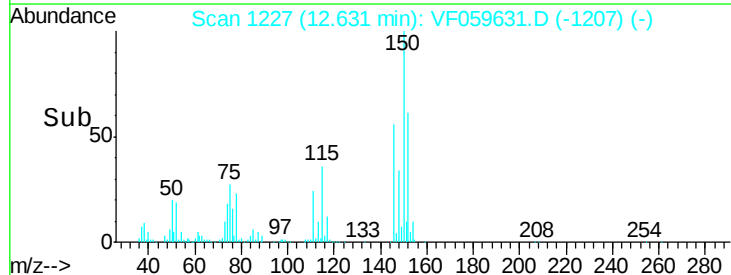
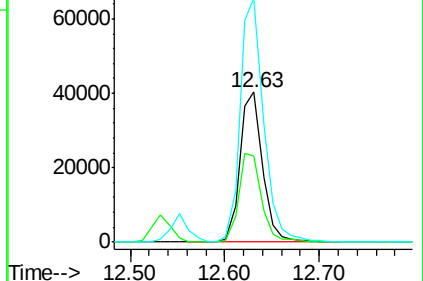
150 162.6 0.0 314.6

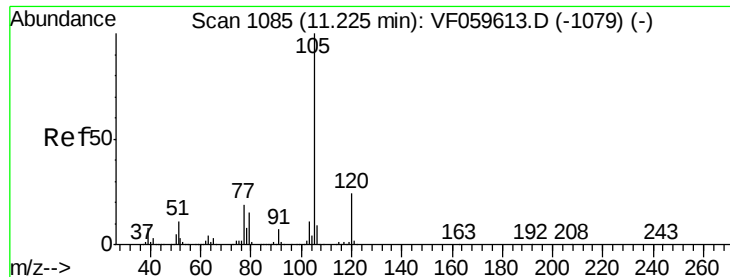


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 68.695 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

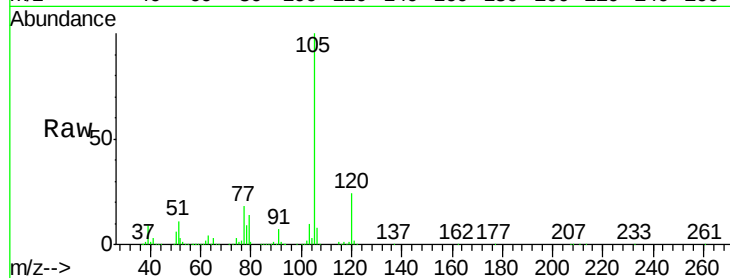
GL-TOPSOIL-09MSD

Tgt Ion:105 Resp: 291086

Ion Ratio Lower Upper

105 100

120 23.7 11.8 35.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

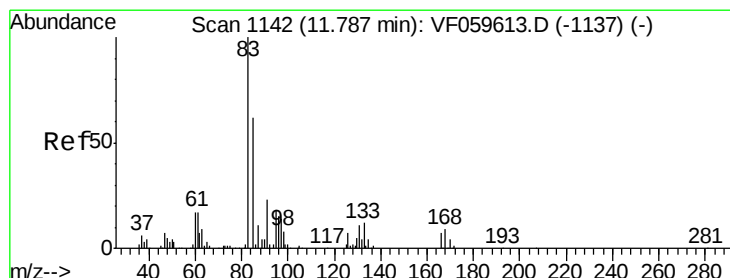
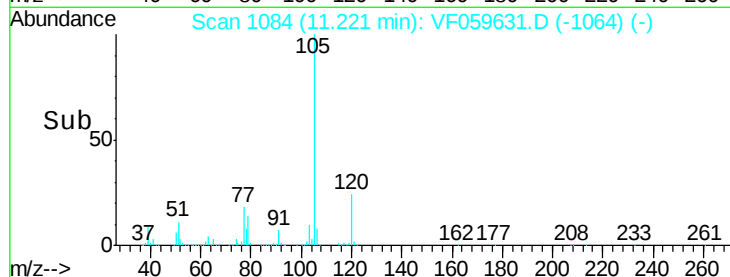
100000

50000

0

11.10 11.20 11.30 11.40

Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: 82.187 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

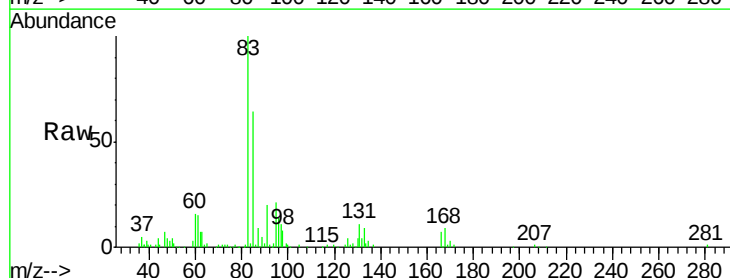
Tgt Ion: 83 Resp: 58463

Ion Ratio Lower Upper

83 100

131 10.5 5.7 17.0

85 63.6 31.1 93.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

50000

40000

30000

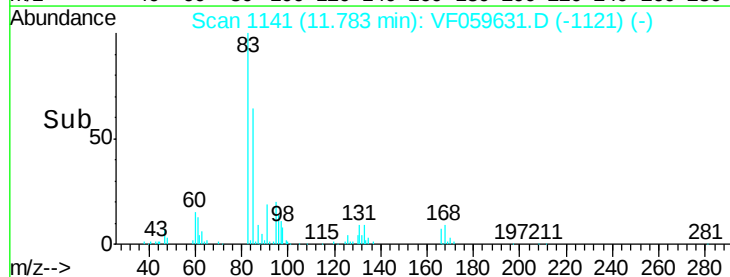
20000

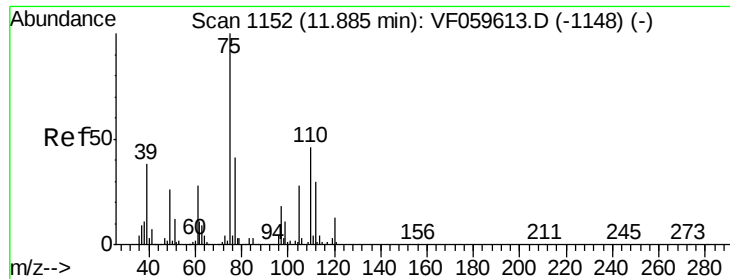
10000

0

11.70 11.80

Time-->

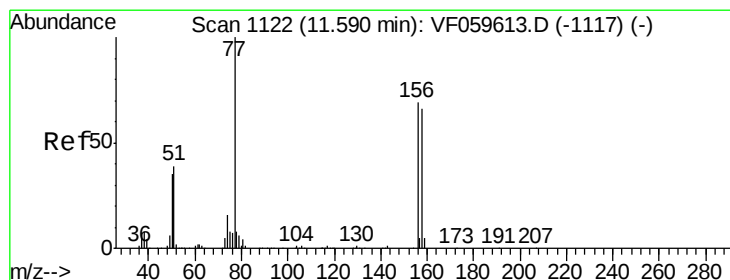
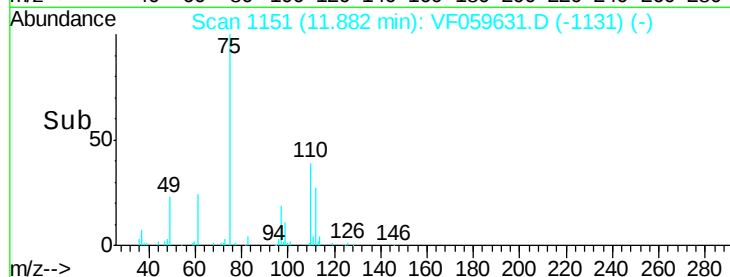
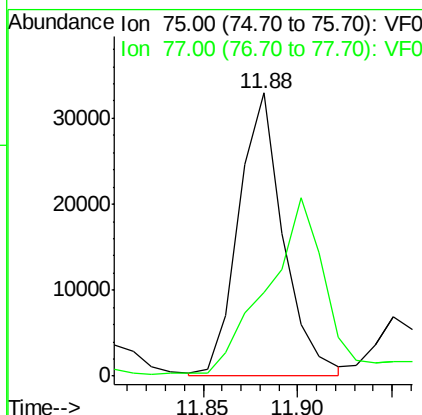
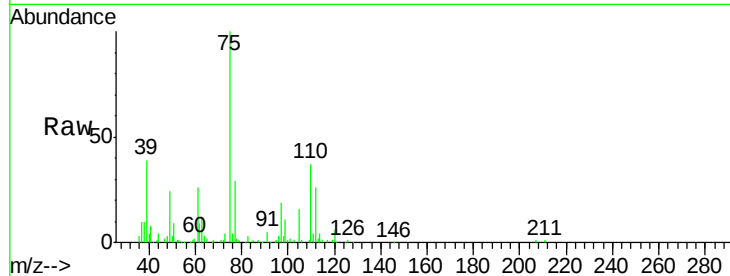




#76
 1,2,3-Trichloropropane
 Concen: 86.607 ug/l
 RT: 11.88 min Scan# 1151
 Delta R.T. -0.00 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

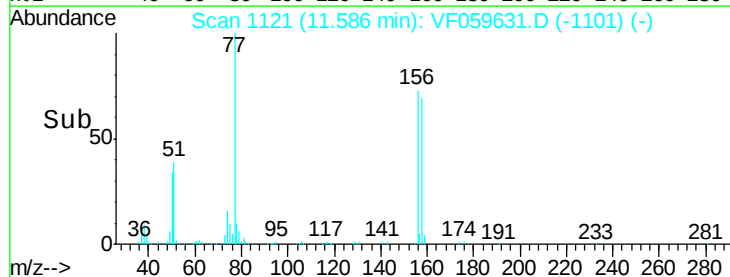
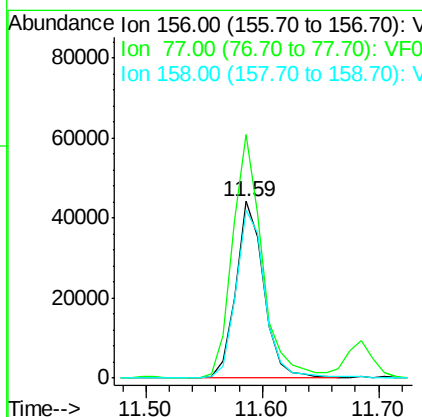
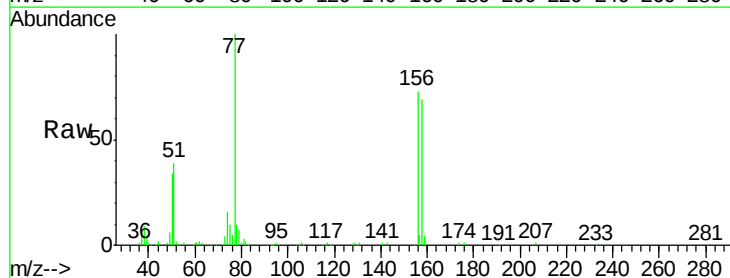
Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MSD

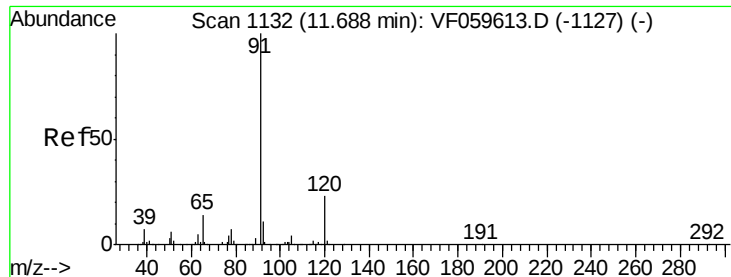
Tgt Ion: 75 Resp: 53821
 Ion Ratio Lower Upper
 75 100
 77 29.5 20.9 62.8



#77
 Bromobenzene
 Concen: 66.668 ug/l
 RT: 11.59 min Scan# 1121
 Delta R.T. -0.00 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

Tgt Ion: 156 Resp: 73192
 Ion Ratio Lower Upper
 156 100
 77 137.6 72.1 216.3
 158 95.1 47.3 141.9

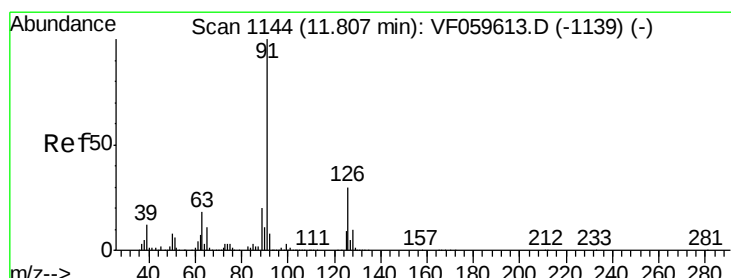
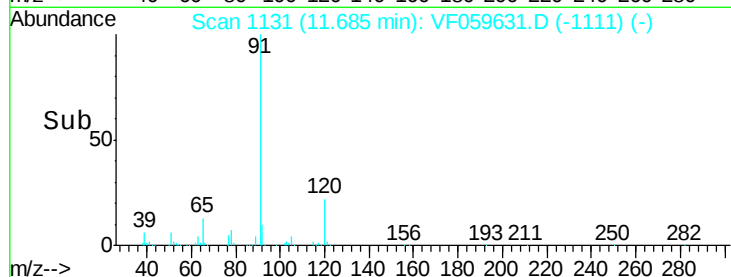
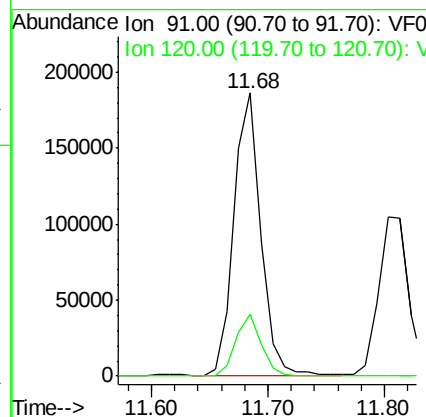
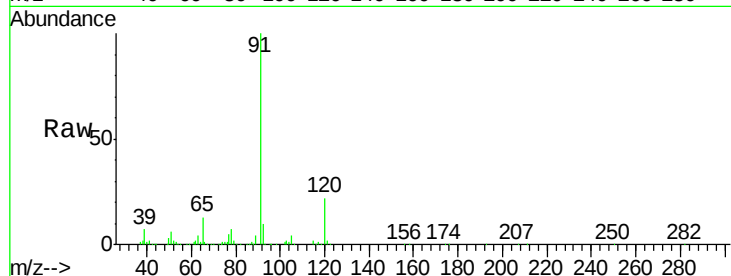




#78
n-propylbenzene
Concen: 58.775 ug/l
RT: 11.68 min Scan# 1131
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

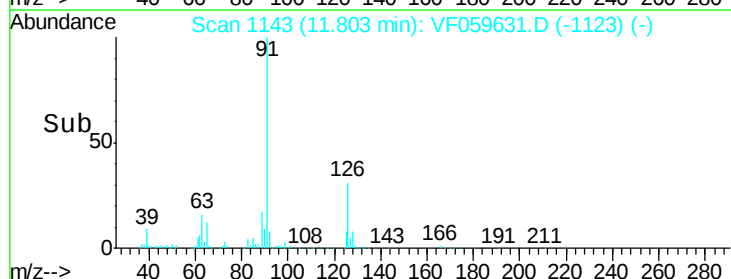
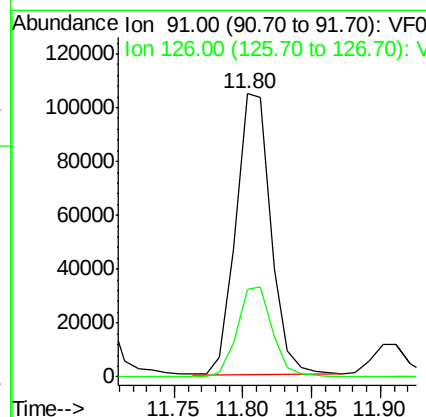
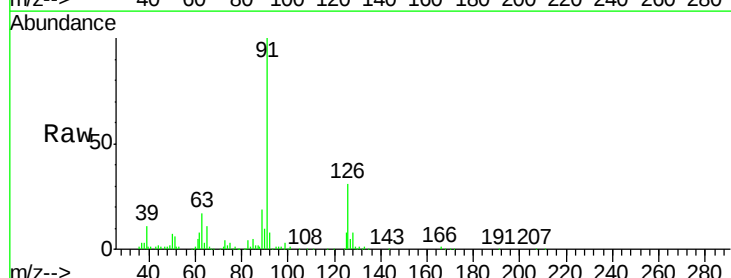
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MSD

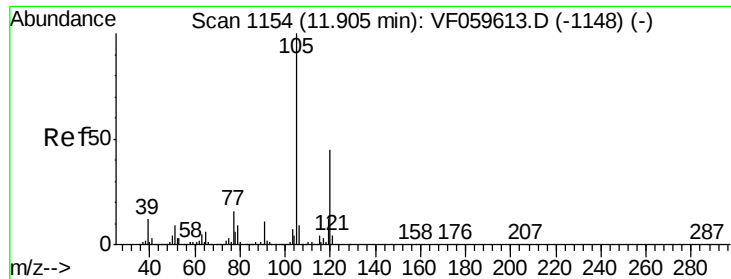
Tgt Ion: 91 Resp: 298452
Ion Ratio Lower Upper
91 100
120 22.0 11.6 34.7



#79
2-Chlorotoluene
Concen: 60.664 ug/l
RT: 11.80 min Scan# 1143
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

Tgt Ion: 91 Resp: 184617
Ion Ratio Lower Upper
91 100
126 31.1 15.1 45.3





#80

1,3,5-Trimethylbenzene

Concen: 52.696 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

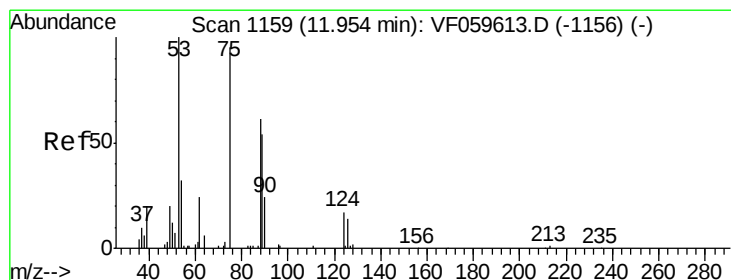
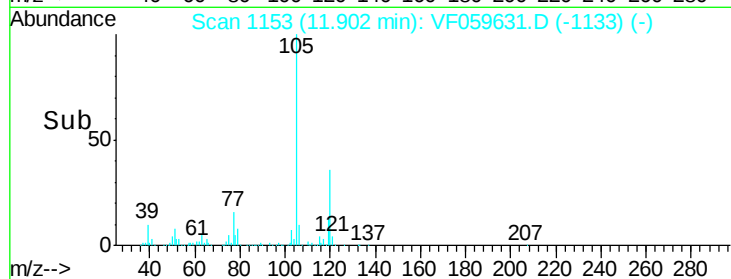
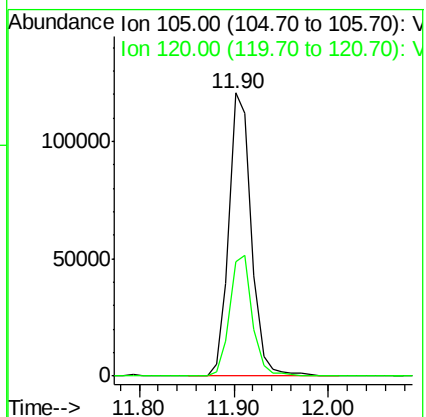
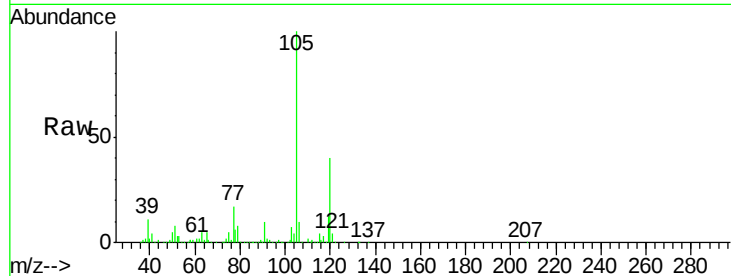
GL-TOPSOIL-09MSD

Tgt Ion:105 Resp: 199888

Ion Ratio Lower Upper

105 100

120 40.3 22.4 67.0



#81

trans-1,4-Dichloro-2-butene

Concen: 72.509 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

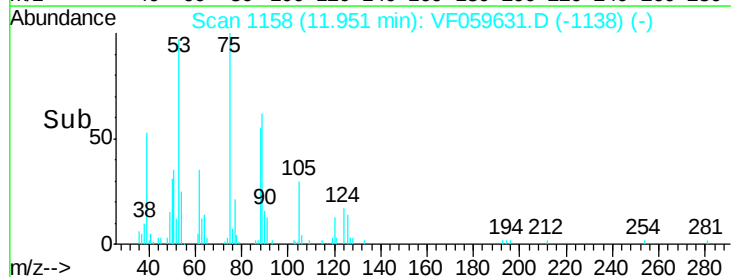
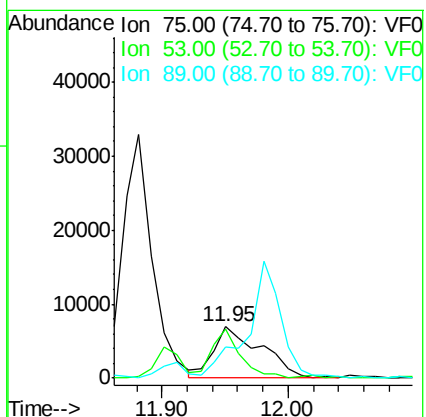
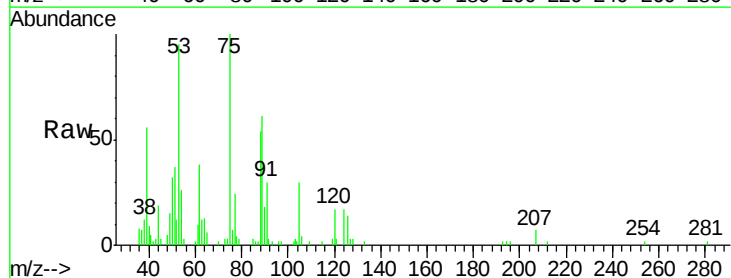
Tgt Ion: 75 Resp: 17872

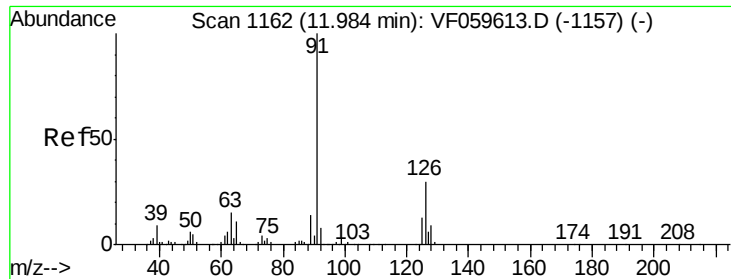
Ion Ratio Lower Upper

75 100

53 95.3 86.4 129.6

89 60.8 46.8 70.2

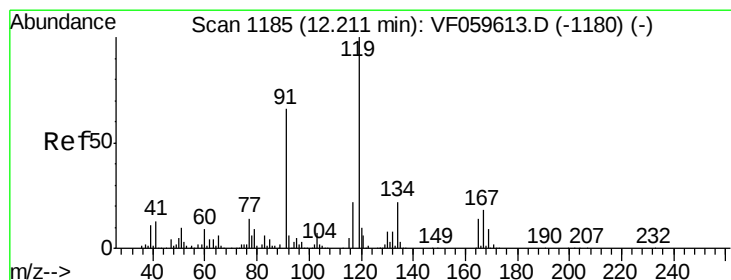
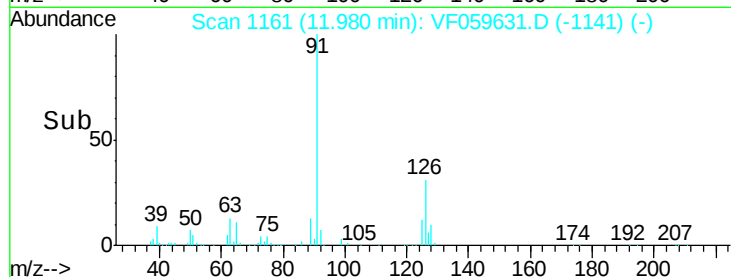
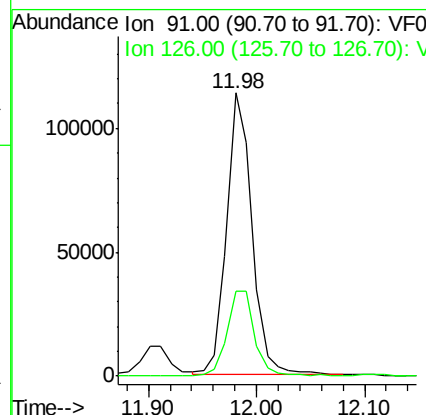
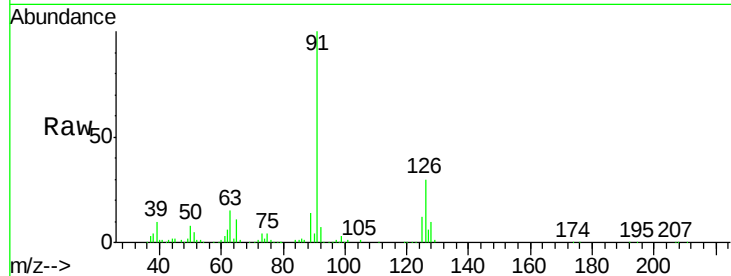




#82
4-Chlorotoluene
Concen: 55.087 ug/l
RT: 11.98 min Scan# 1161
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

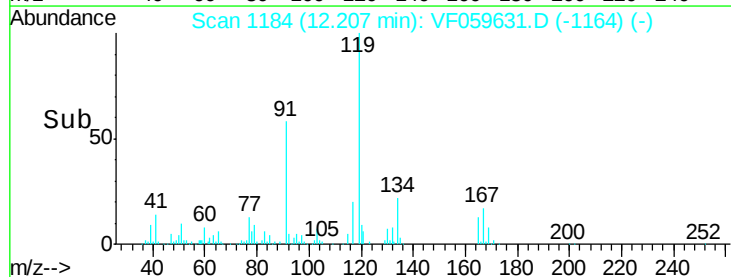
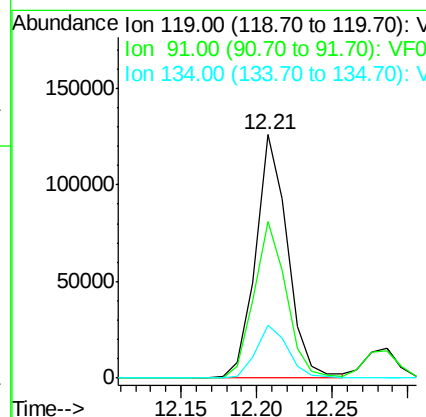
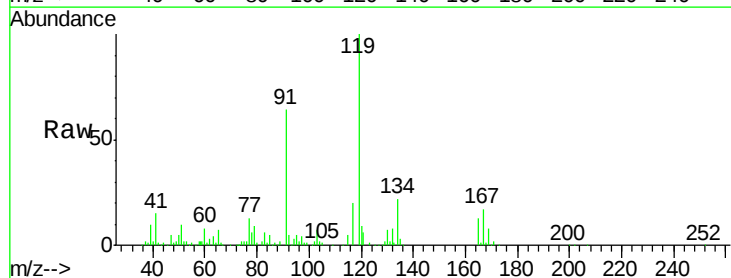
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MSD

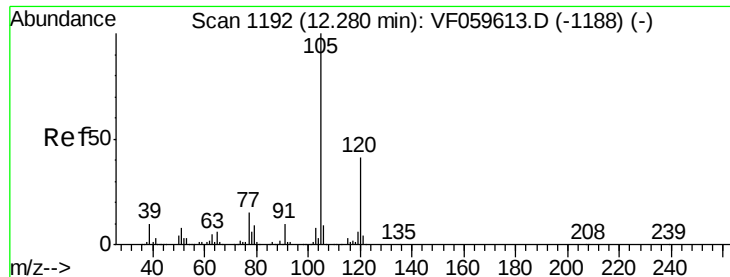
Tgt Ion: 91 Resp: 186473
Ion Ratio Lower Upper
91 100
126 30.0 14.7 44.1



#83
tert-Butylbenzene
Concen: 49.383 ug/l
RT: 12.21 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

Tgt Ion: 119 Resp: 185228
Ion Ratio Lower Upper
119 100
91 64.4 33.2 99.6
134 21.8 10.9 32.6

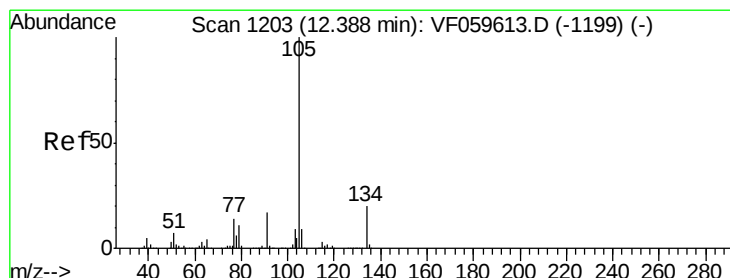
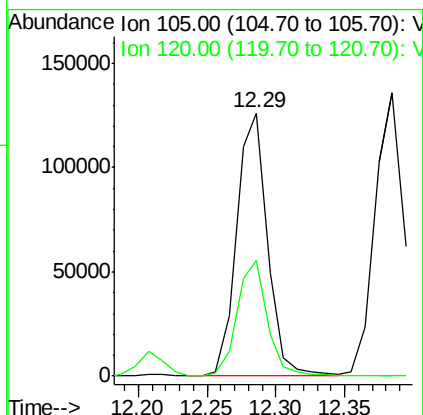
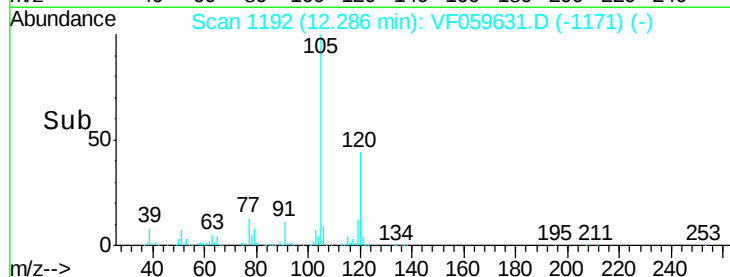
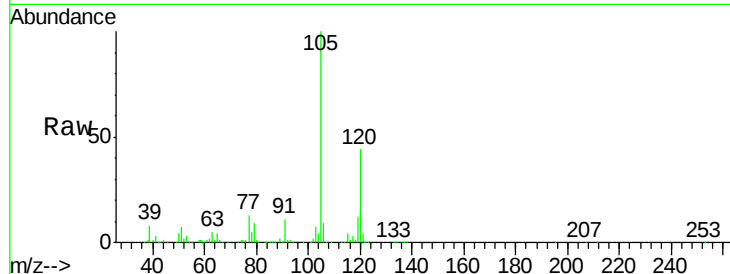




#84
 1,2,4-Trimethylbenzene
 Concen: 50.840 ug/l
 RT: 12.29 min Scan# 1192
 Delta R.T. 0.01 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

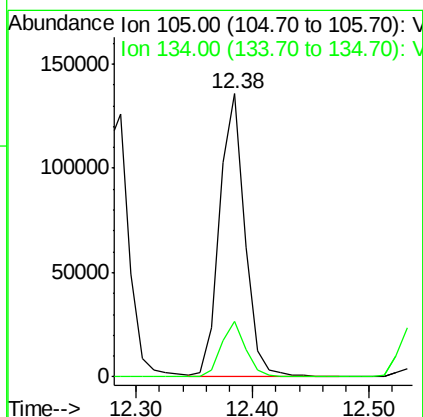
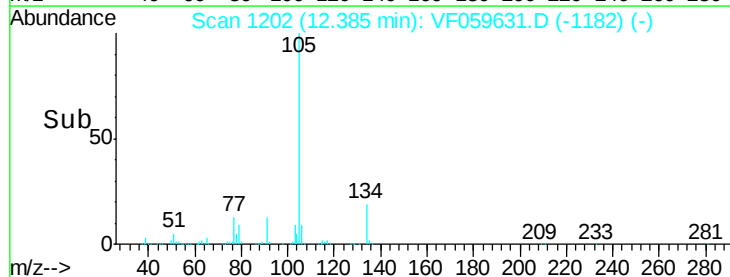
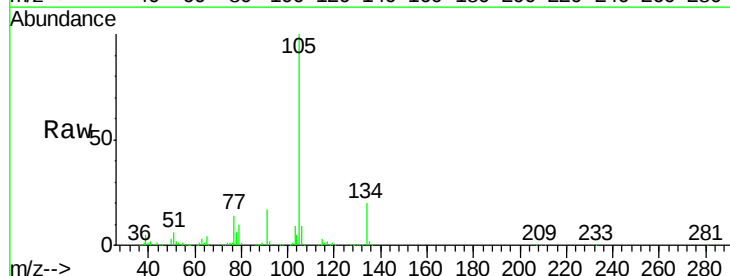
Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MSD

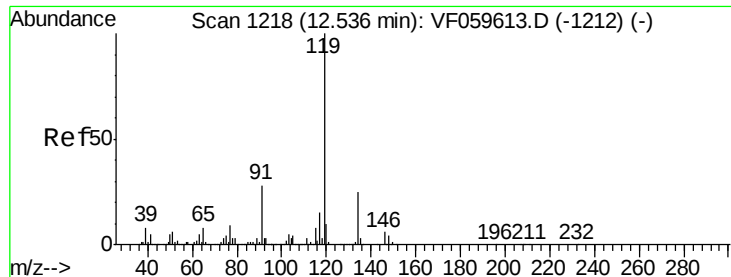
Tgt Ion:105 Resp: 196188
 Ion Ratio Lower Upper
 105 100
 120 43.8 20.4 61.3



#85
 sec-Butylbenzene
 Concen: 42.021 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

Tgt Ion:105 Resp: 203719
 Ion Ratio Lower Upper
 105 100
 134 19.7 9.9 29.7

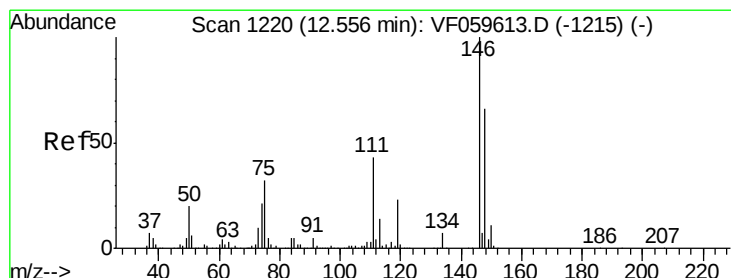
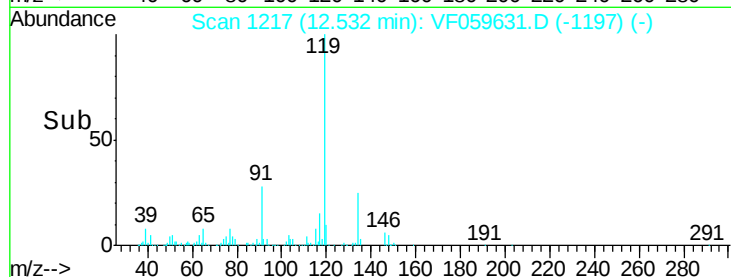
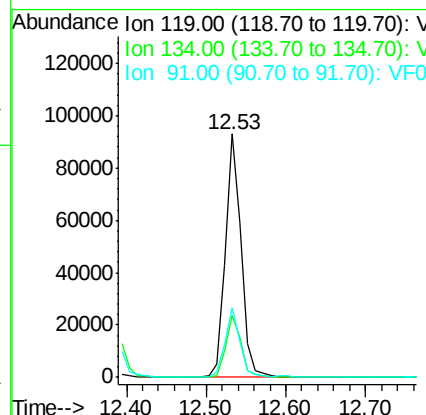
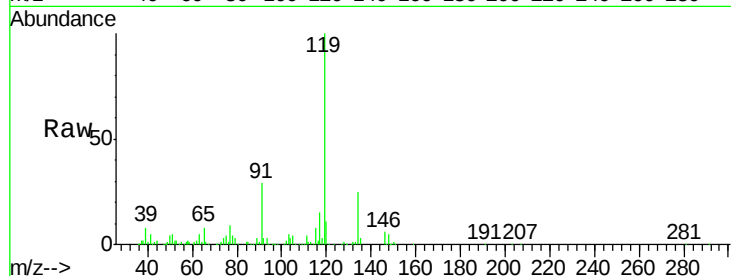




#86
 p-Isopropyltoluene
 Concen: 30.514 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. -0.00 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

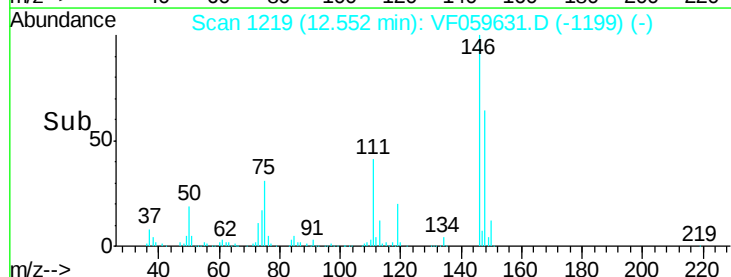
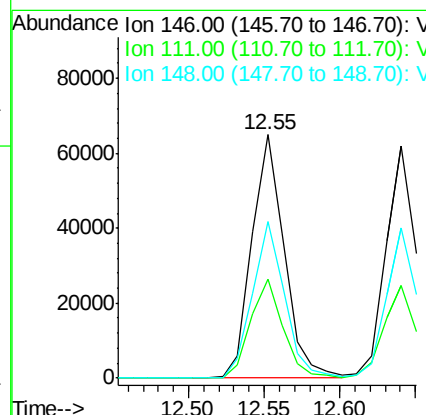
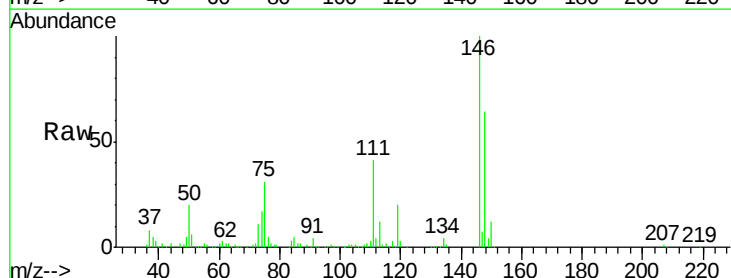
Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MSD

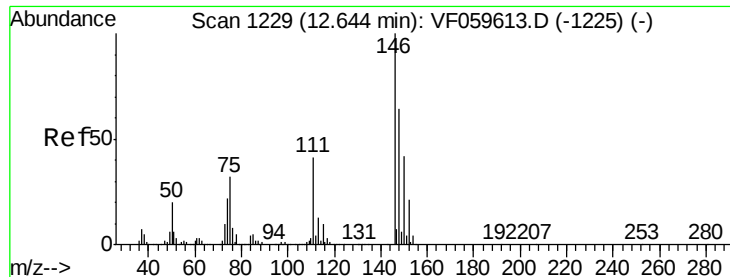
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.4	37.2
91	28.6	13.9	41.7



#87
 1,3-Dichlorobenzene
 Concen: 46.297 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.6	64.8
148	64.1	33.1	99.3

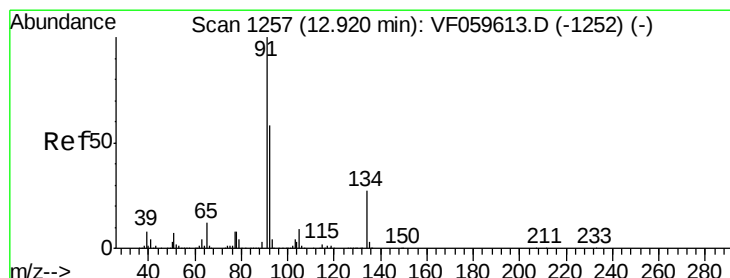
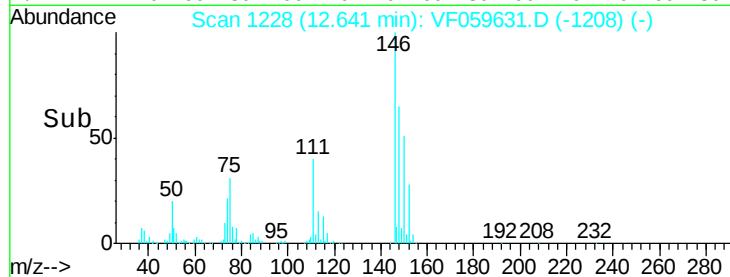
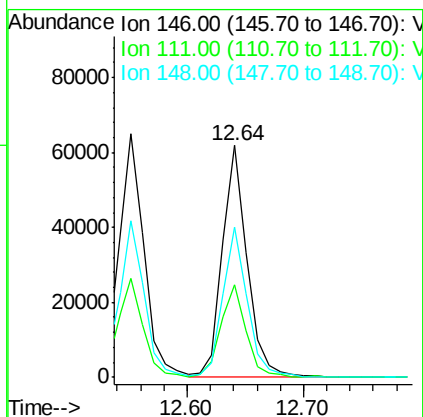
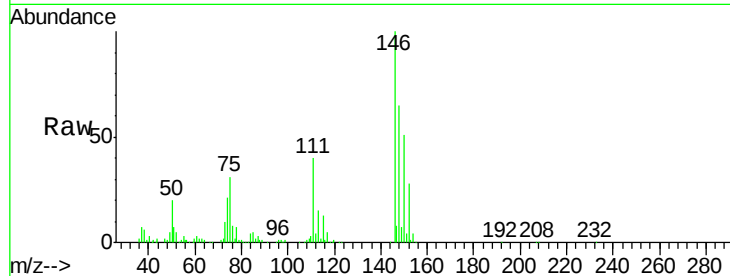




#88
 1,4-Dichlorobenzene
 Concen: 46.446 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

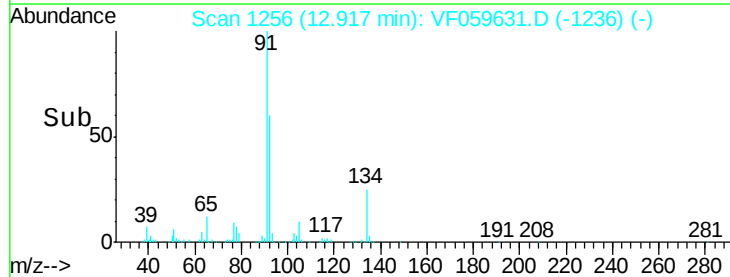
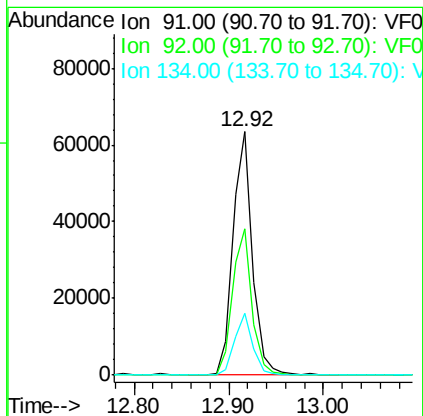
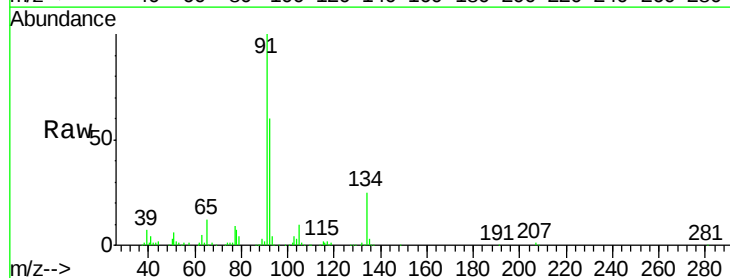
Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MSD

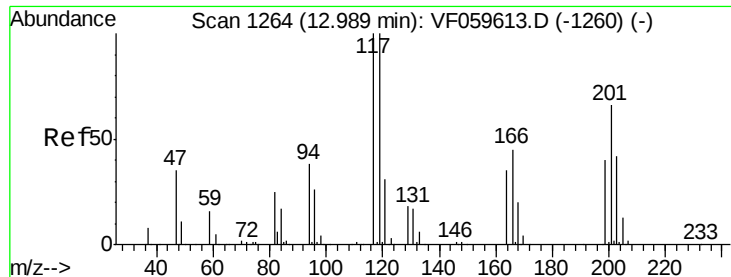
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.5	61.5
148	65.0	32.3	96.8



#89
 n-Butylbenzene
 Concen: 21.946 ug/l
 RT: 12.92 min Scan# 1256
 Delta R.T. -0.00 min
 Lab File: VF059631.D
 Acq: 23 Jul 2018 23:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.0	28.8	86.4
134	25.4	13.5	40.4

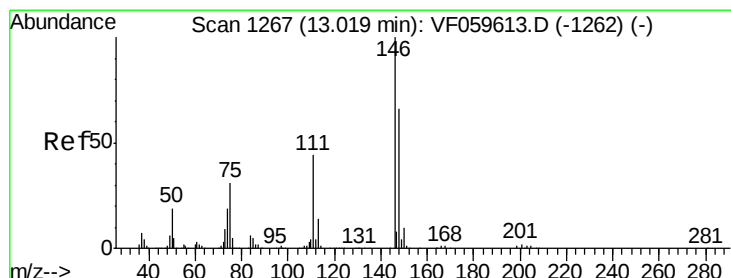
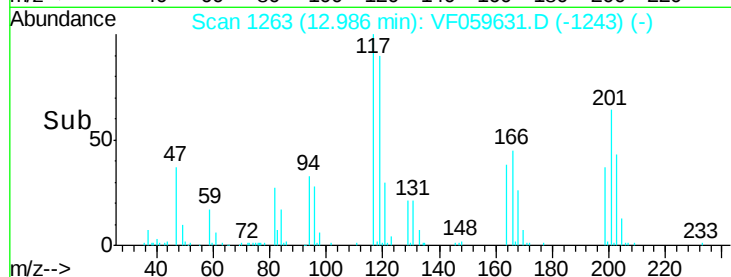
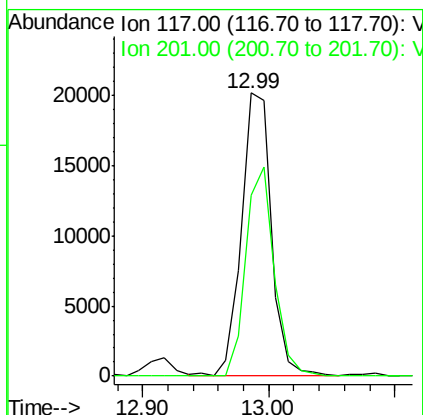
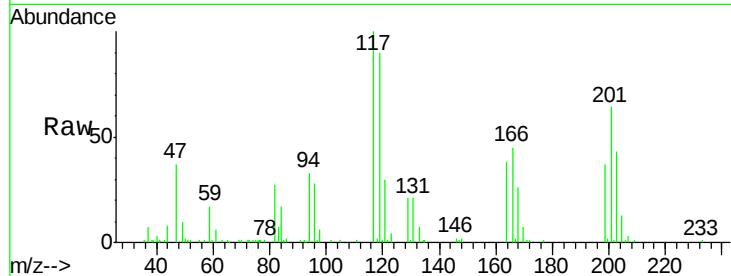




#90
Hexachloroethane
Concen: 31.408 ug/l
RT: 12.99 min Scan# 1263
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

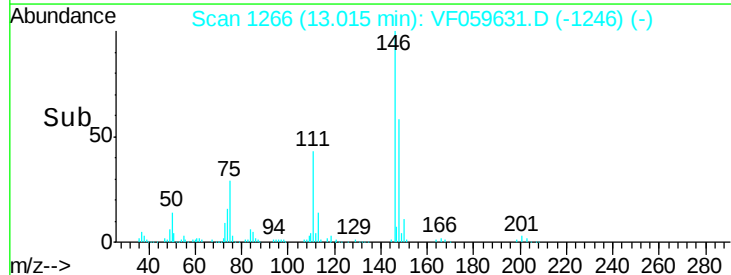
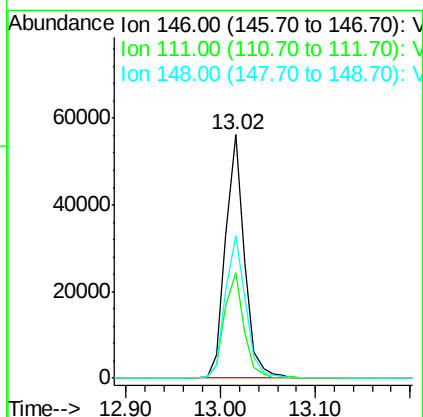
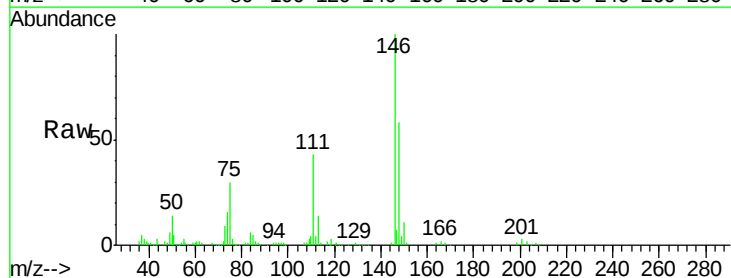
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MSD

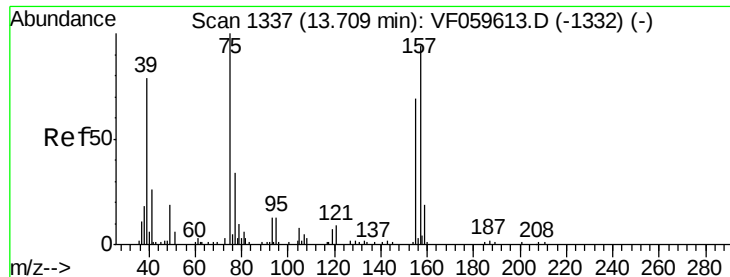
Tgt Ion:117 Resp: 33202
Ion Ratio Lower Upper
117 100
201 64.9 33.6 100.6



#91
1,2-Dichlorobenzene
Concen: 39.780 ug/l
RT: 13.02 min Scan# 1266
Delta R.T. -0.00 min
Lab File: VF059631.D
Acq: 23 Jul 2018 23:12

Tgt Ion:146 Resp: 78057
Ion Ratio Lower Upper
146 100
111 43.4 21.8 65.3
148 58.5 32.9 98.7





#92

1,2-Dibromo-3-Chloropropane

Concen: 54.497 ug/l

RT: 13.71 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

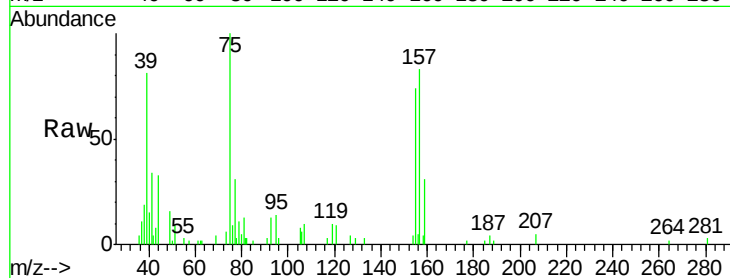
Tgt Ion: 75 Resp: 9331

Ion Ratio Lower Upper

75 100

155 74.3 34.6 103.8

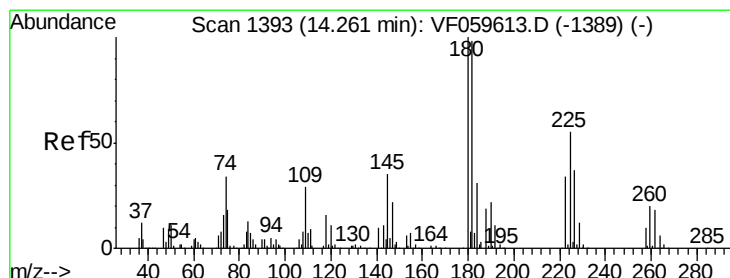
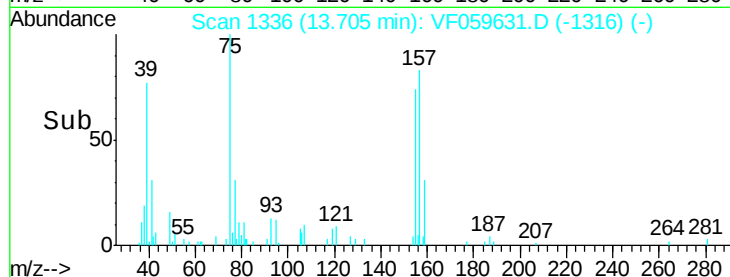
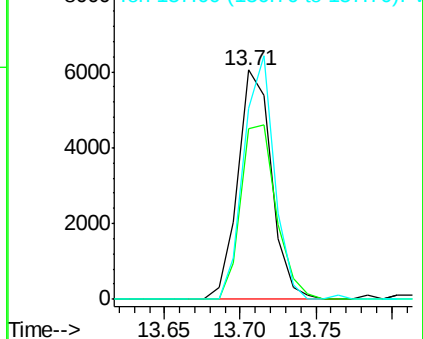
157 83.1 47.0 141.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#93

1,2,4-Trichlorobenzene

Concen: 14.462 ug/l

RT: 14.27 min Scan# 1393

Delta R.T. 0.01 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

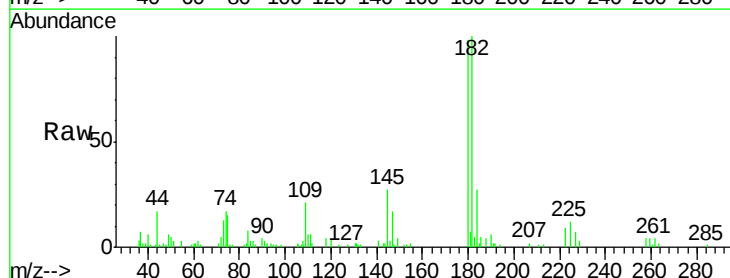
Tgt Ion: 180 Resp: 21211

Ion Ratio Lower Upper

180 100

182 101.9 48.8 146.3

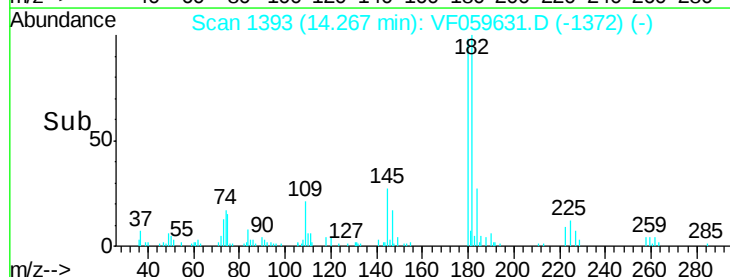
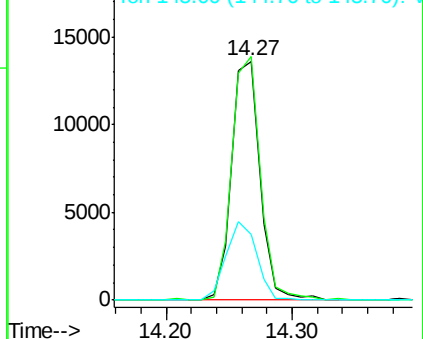
145 27.4 17.5 52.6

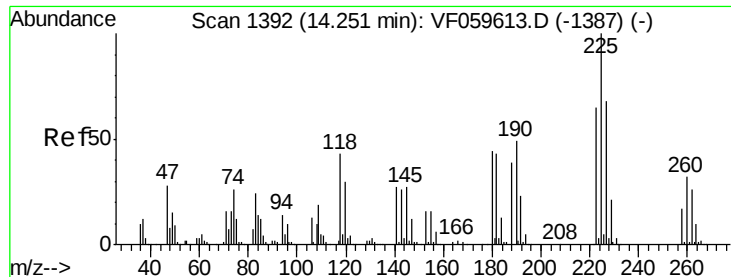


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#94

Hexachlorobutadiene

Concen: 13.357 ug/l

RT: 14.25 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

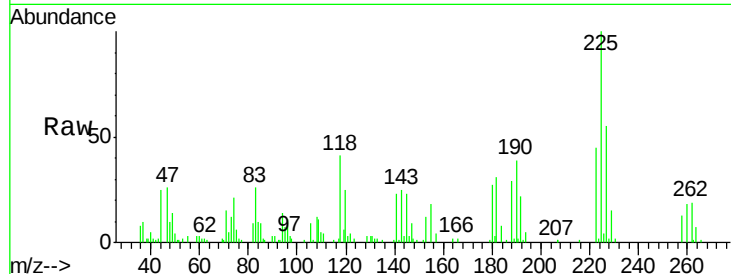
Tgt Ion:225 Resp: 13638

Ion Ratio Lower Upper

225 100

223 47.7 32.6 98.0

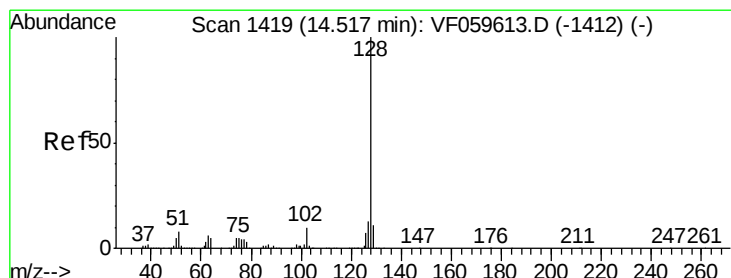
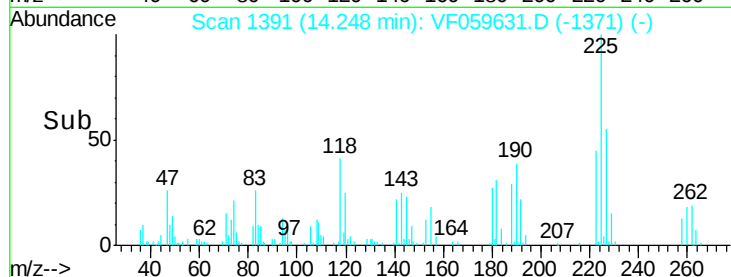
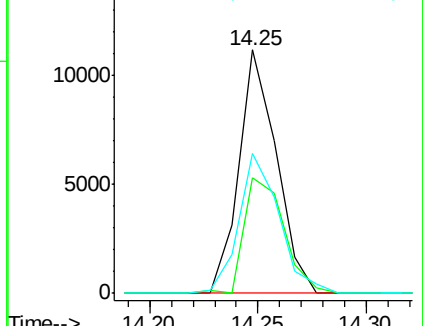
227 57.6 33.9 101.6



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#95

Naphthalene

Concen: 17.791 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. 0.01 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

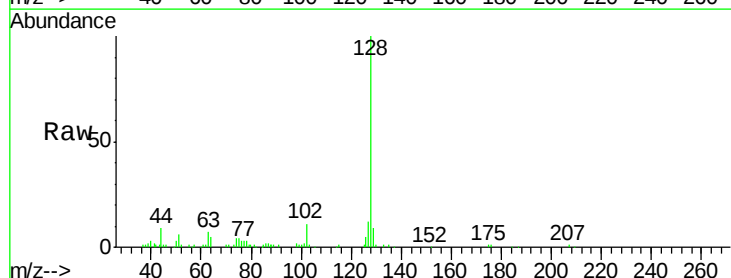
Tgt Ion:128 Resp: 42379

Ion Ratio Lower Upper

128 100

127 12.0 10.2 15.2

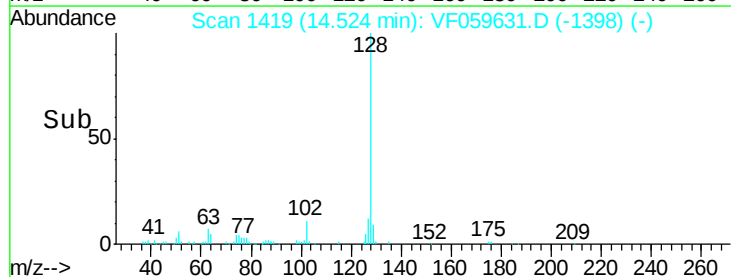
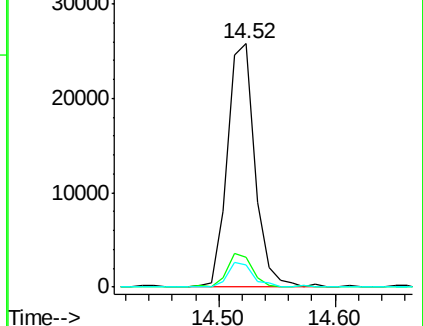
129 9.0 9.1 13.7#

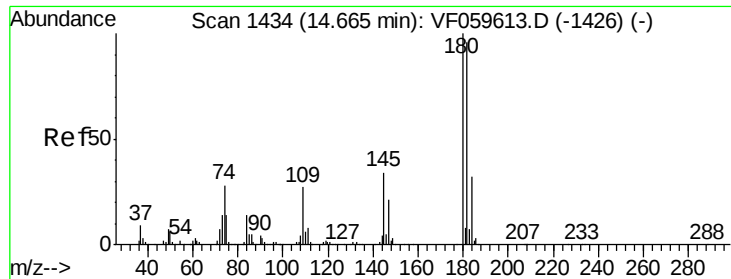


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 11.642 ug/l

RT: 14.66 min Scan# 1433

Delta R.T. -0.00 min

Lab File: VF059631.D

Acq: 23 Jul 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MSD

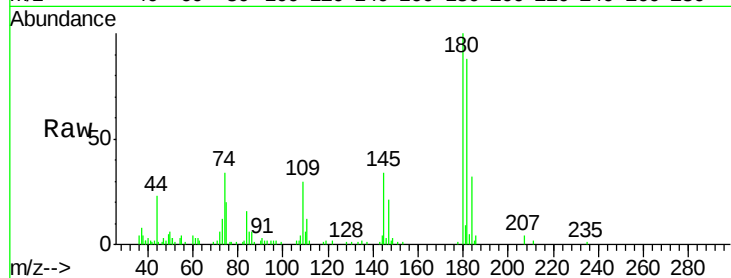
Tgt Ion:180 Resp: 15522

Ion Ratio Lower Upper

180 100

182 87.6 48.0 144.2

145 34.5 17.1 51.2



Abundance Ion 180.00 (179.70 to 180.70): V

15000 Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

